

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 and/or phase 5 may be lagged.
4. Reposition existing signal heads numbered 41, 42, 43, 44, 81, 82, 83 and 84.
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. The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
9. This intersection uses video detection. Maintain detectors according to the manufacturer's instructions to achieve the desired detection.
10. Disconnect and bag pedestrian signal head for P82.
11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

	DETECTED MOVEMENT
	UNDETECTED MOVEMENT (OVERLAP)
	UNSIGNALIZED MOVEMENT
	PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE					
	1 + 5	1 + 6	2 + 5	2 + 6	4 + 8	F L A S H
11	←	←	$\overline{F}_Y$	$\overline{F}_Y$	←	←
21, 22	R	R	G	G	R	R
41	←	←	←	←	$\overline{F}_Y$	←
42, 43, 44	R	R	R	R	G	R
51	←	$\overline{F}_Y$	←	$\overline{F}_Y$	←	←
61, 62	R	G	R	G	R	R
81	←	←	R	R	$\overline{F}_Y$	←
82, 84	R	R	R	R	G	R
83	R	R	/	R	G	R
P21, P22	DW	DW	W	W	DW	DRK
P41, P42	DW	DW	DW	DW	W	DRK

SIGNAL FACE	PHASE					
	1 + 5	1 + 6	2 + 5	2 + 6	4 + 8	F L A S H
11	←	←	←	←	←	←
21, 22	R	R	G	G	R	R
41	←	←	←	←	F	←
42, 43, 44	R	R	R	R	G	R
51	←	←	←	←	←	←
61, 62	R	G	R	G	R	R
81	←	←	←	←	F	←
82, 84	R	R	R	R	G	R
83	R	R	R	R	G	R
P21, P22	DW	DW	W	W	DW	DRK
P41, P42	DW	DW	DW	DW	W	DRK

DETECTION					PROGRAMMING								
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	SYSTEM	ZONE	NEW	CARD
1A*	6X40	0	*	*	1	Yes	-	15.0**	-	N	-	*	
					6#	Yes	-	3.0	-	G	-	*	
1B*	6X40	0	*	*	1	Yes	-	15.0	-	N	-	*	
2A*	6X6	300	*	*	2	Yes	-	-	X	N	-	*	
4A*	6X40	0	*	*	4	Yes	-	3.0	-	N	-	*	
4B*	6X40	0	*	*	4	Yes	-	10.0	-	N	-	*	
5A*	6X40	0	*	*	5	Yes	-	15.0**	-	N	-	*	
					2#	Yes	-	3.0	-	G	-	*	
6A*	6X6	300	*	*	6	Yes	-	-	X	N	-	*	
8A*	6X40	0	*	*	8	Yes	-	3.0	-	N	-	*	
8B*	6X40	0	*	*	8	Yes	-	-	-	N	-	*	

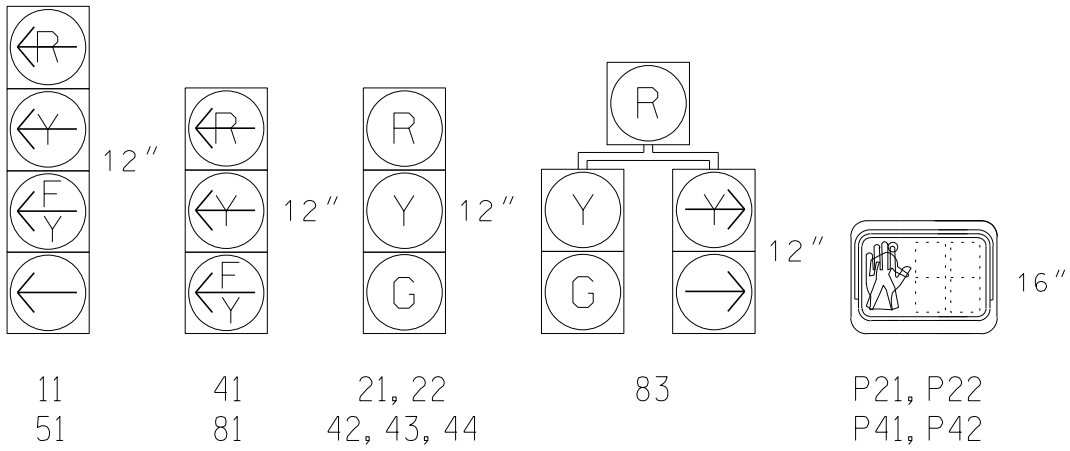
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* Non-Intrusive Detection Zone
** Reduce delay to 3 seconds during alternate phasing operation
# Disable phase call for loop(s) during alternate phasing operation
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ASC/3 TIMING CHART						
FEATURE	PHASE					
	1	2	4	5	6	8
Min Green *	7	12	7	7	12	7
Delayed Green	-	7	7	-	-	-
Walk *	-	14	14	-	-	-
Ped Clear	-	28	23	-	-	-
Veh. Extension *	2.0	6.0	2.0	2.0	6.0	2.0
Max 1 *	20	75	40	20	75	40
Yellow	3.0	4.7	4.8	3.0	4.7	4.8
Red Clear	3.6	2.3	1.6	2.6	2.3	1.6
Actuations B4 Add *	-	-	-	-	-	-
Seconds /Actuation *	-	2.5	-	-	2.5	-
Max Initial *	-	34	-	-	34	-
Time Before Reduction *	-	15	-	-	15	-
Time To Reduce *	-	30	-	-	30	-
Minimum Gap	-	3.0	-	-	3.0	-
Locking Detector	-	X	-	-	X	-
Recall Position **	-	SOFT RECALL	-	-	SOFT RECALL	-
Dual Entry	-	-	X	-	-	X
Simultaneous Gap	X	X	X	X	X	X

* 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.

** May be changed to Min Recall by Time of Day at discretion of City Traffic Engineer.

All Heads L.E.D.



PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Non-Intrusive Detection Zone	N/A
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
N/A	Guardrail	
N/A	Concrete Barrier	
N/A	Construction Zone	
N/A	Construction Zone Drums	
N/A	Type III Barrier	
	Metal Strain Pole	
	Type I Pushbutton Post	
	Type II Signal Pedestal	
	Curb Ramp	
(A)	Street Name Sign (D3-1) By Others	(A)
(B)	Right Arrow "ONLY" Sign (R3-5R)	(B)

Signal Upgrade - Temporary Design 2
(TMP Phase II)

AtkinsRéalis
1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

Prepared for the Offices of:  750 N. Greenfield Pkwy, Garner, NC 27529	SR 1820 (Skeet Club Road) at SR 1818 (Johnson Street)																			
Division 7 Guilford County High Point																				
PLAN DATE: August 2025		REVIEWED BY: AM Encarnacion																		
PREPARED BY: JT Staff		REVIEWED BY: PL Alexander																		
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 SCALE 0 40 1" = 40' Designed by: <u>James Staff</u> 8/14/2025 _____ SIGNATURE TITLE DATE SIG. INVENTORY NO. 07-093572																				