

	DETECTED MOVEMENT
	UNDETECTED MOVEMENT (OVERLAP)
	UNSIGNALIZED MOVEMENT
	PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE						
	1 + 5	1 + 6	2 + 5	2 + 6	4 + 7	4 + 8	FLASH
11	←	←	$\frac{F}{Y}$	$\frac{F}{Y}$	←	←	←
21, 22	R	R	G	G	R	R	R
41, 42	R	R	R	R	G	G	R
51	←	$\frac{F}{Y}$	←	$\frac{F}{Y}$	←	←	←
61, 62	R	G	R	G	R	R	R
71	←	←	←	←	←	$\frac{F}{Y}$	←
81	←	←	←	←	$\frac{F}{Y}$	$\frac{F}{Y}$	←
82, 83	R	R	R	R	R	G	R
P21, P22	DW	DW	W	W	DW	DW	DRK
P41, P42	DW	DW	DW	DW	W	W	DRK
P61, P62	DW	W	DW	W	DW	DW	DRK
P81, P82	DW	DW	DW	DW	DW	W	DRK

All Heads L.E.D.

 = Bimodal Section

			12"				12"				12"		16"		
11	51	71		81				21, 22	41, 42	61, 62	82, 83	P21, P22	P41, P42	P61, P62	P81, P82

INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	EXISTING	-	1	Y	Y	-	-	15	-	Y
					6	Y	Y	-	-	-	-	Y
2A	6X20	70	EXISTING	-	2	Y	Y	-	-	-	-	Y
4A	6X40	0	EXISTING	-	4	Y	Y	-	-	10	-	Y
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	15	-	Y
					2	Y	Y	-	-	-	-	Y
6A	6X6	70	EXISTING	-	6	Y	Y	-	-	-	-	Y
6B	6X6	70	EXISTING	-	6	Y	Y	-	-	-	-	Y
7A	6X40	0	EXISTING	-	7	Y	Y	-	-	15	-	Y
					4	Y	Y	-	-	3	-	Y
8A	6X40	0	EXISTING	-	8	Y	Y	-	-	3	-	Y
8B	6X40	0	EXISTING	-	8	Y	Y	-	-	10	-	Y

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. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. In the event of loop replacement, refer to the current Signals and Geometrics Design Manual.
7. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
9. Pavement markings are existing.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
11. Controller Asset: #0234.

FEATURE	PHASE						
	1	2	4	5	6	7	8
Min Green 1 *	7	10	7	7	10	7	7
Extension 1 *	2.0	3.0	2.0	2.0	3.0	2.0	2.0
Max Green 1 *	20	30	25	20	30	20	25
Yellow Clearance	3.0	3.8	3.8	3.0	3.8	3.0	3.8
Red Clearance	2.4	2.4	1.8	2.4	2.4	2.6	1.8
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	14	14	-	14	-	14
Don't Walk 1	-	14	22	-	12	-	22
Advanced Walk	-	7	7	-	7	-	7
Seconds Per Actuation *	-	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-	-
Dual Entry	-	-	ON	-	-	-	ON
Simultaneous Gap	ON	ON	ON	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.

<u>PROPOSED</u>		<u>EXISTING</u>
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
	Right of Way	
	Directional Arrow	
	Type II Signal Pedestal	
	Street Name Sign (D3-1)	

Prepared for the Offices of:

Transportation Mobility and Safety Division
DEPARTMENT OF TRANSPORTATION
SIGNAL DESIGN SECTION

750 N. Greenfield Pkwy, Garner, NC 27525

SCALE
0 4
1" = 40'

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DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL

DocuSigned by:
Anthony J. Kalencik 3/27/2020
SIGNATURE DATE
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SIG. INVENTORY NO. 04-0234