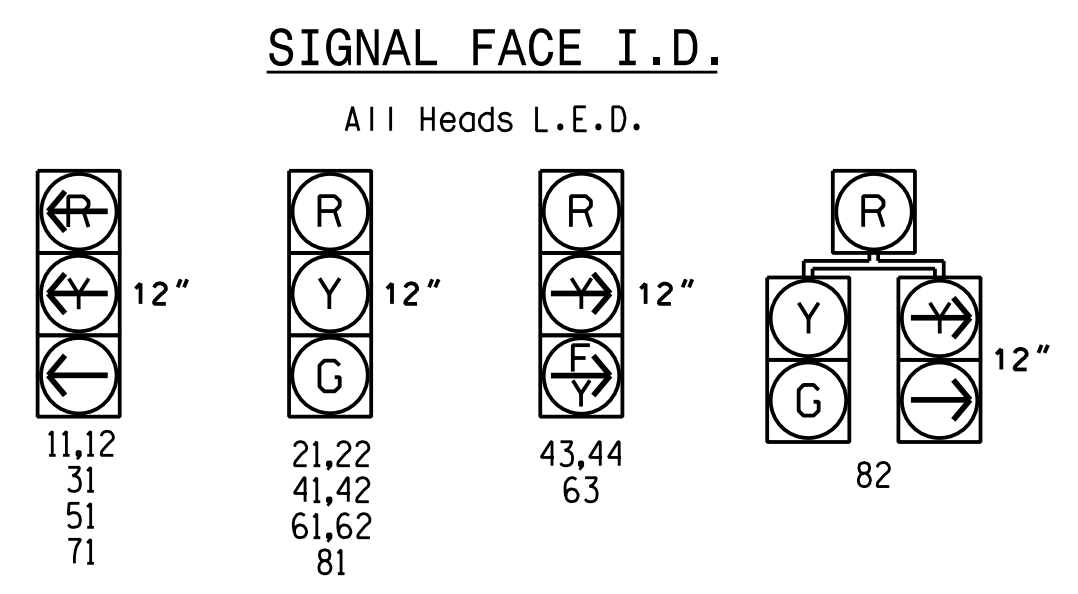


**TABLE OF OPERATION**

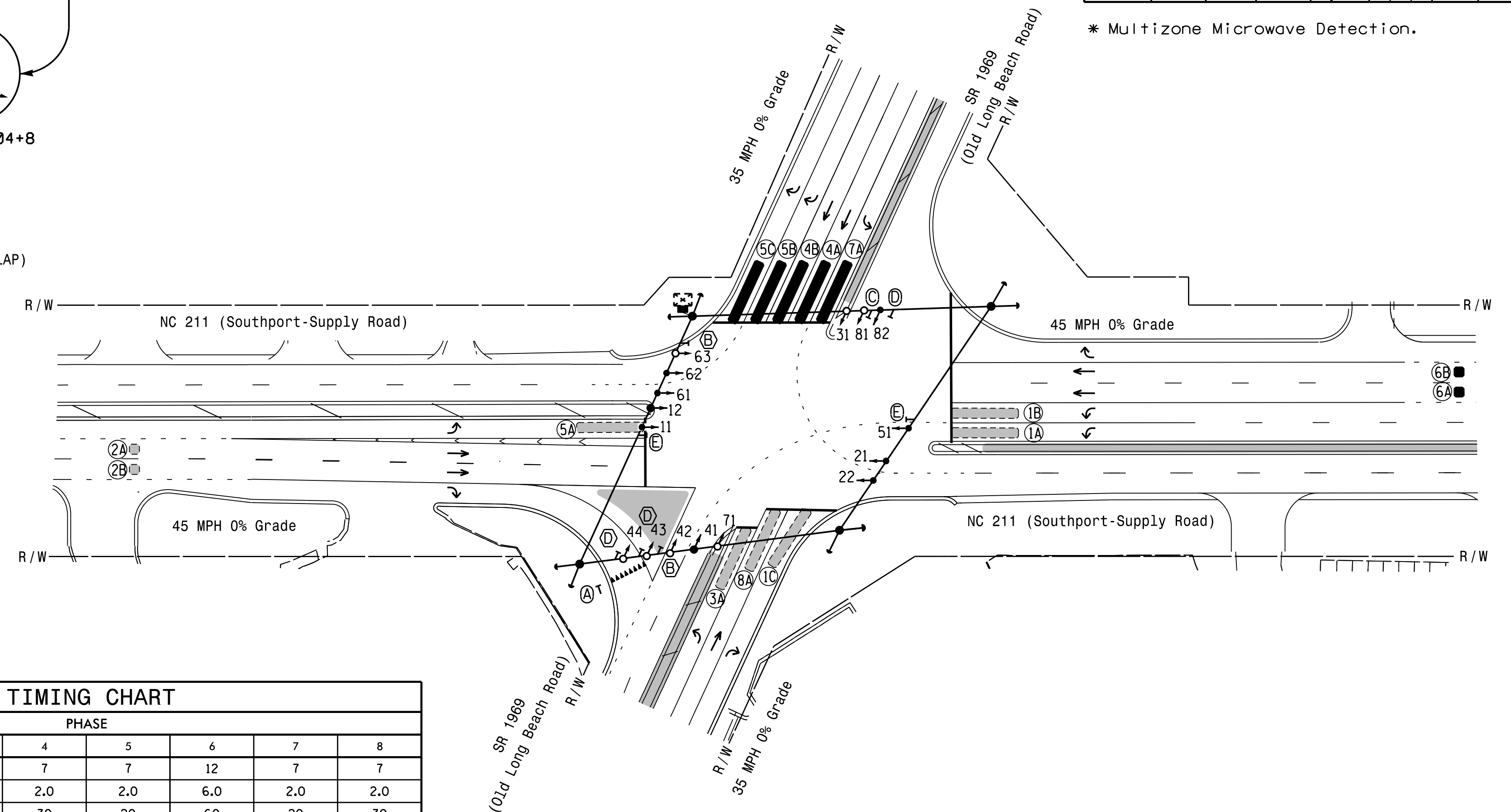
SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11,12	---	---	---	---	---	---	---	---
21,22	R	R	G	G	R	R	R	Y
31	---	---	---	---	---	---	---	---
41,42	R	R	R	R	R	R	G	G
43,44	F	R	F	R	F	R	F	R
51	---	---	---	---	---	---	---	---
61,62	R	G	R	G	R	R	R	Y
63	R	F	R	F	F	R	F	Y
71	---	---	---	---	---	---	---	---
81	R	R	R	R	G	R	G	R
82	R	R	R	R	G	R	G	R



**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTENSION	STRETCH TIME		
1A	6X40	0	*	*	1	Y	Y	-	-	-
1B	6X40	0	*	*	1	Y	Y	-	-	-
1C	6X40	0	*	*	1	Y	Y	-	-	-
2A	6X6	300	*	*	2	Y	Y	-	-	-
2B	6X6	300	*	*	2	Y	Y	-	-	-
3A	6X40	0	*	*	3	Y	Y	-	-	-
4A	6X40	0	*	*	4	Y	Y	-	-	- Y
4B	6X40	0	*	*	4	Y	Y	-	-	- Y
5A	6X40	0	*	*	5	Y	Y	-	-	-
5B	6X40	0	*	*	5	Y	Y	-	-	- Y
5C	6X40	0	*	*	5	Y	Y	-	-	- Y
6A	6X6	300	*	*	6	Y	Y	-	-	-
6B	6X6	300	*	*	6	Y	Y	-	-	-
7A	6X40	0	*	*	7	Y	Y	-	-	- Y
8A	6X40	0	*	*	8	Y	Y	-	-	- Y

\* Multizone Microwave Detection.

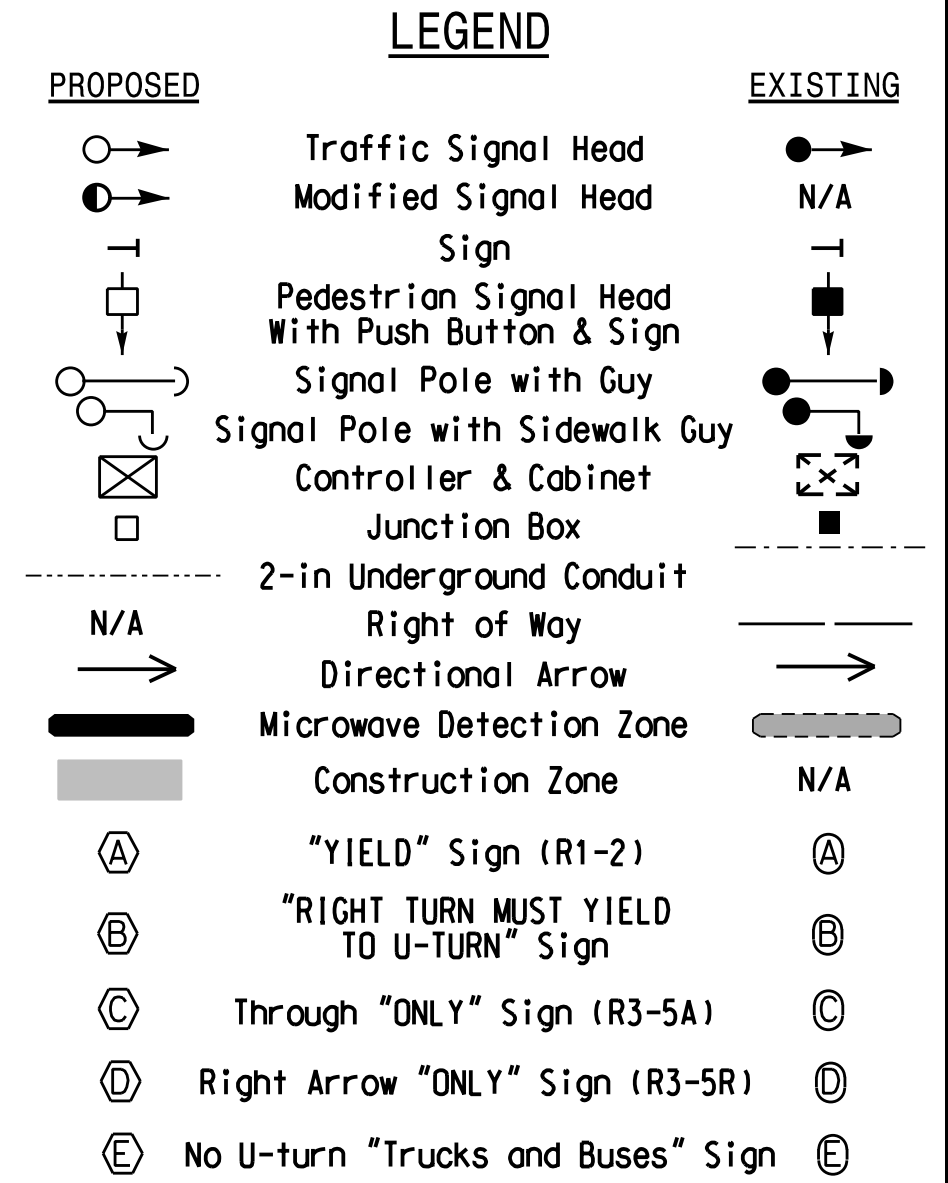


**OASIS 2070 TIMING CHART**

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1 *	7	12	7	7	7	12	7	7
Extension 1 *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max Green 1 *	20	60	20	30	20	60	20	30
Yellow Clearance	3.0	4.5	3.0	3.8	3.0	4.5	3.0	3.8
Red Clearance	4.2	1.8	3.1	2.2	3.8	2.5	2.9	2.3
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-	-	-
Seconds Per Actuation *	-	1.5	-	-	-	1.5	-	-
Max Variable Initial *	-	34	-	-	-	34	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	45	-	-	-	45	-	-
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	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.

- 8 Phase Fully Actuated (NC 133 Closed Loop System)**
- NOTES**
- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
  - Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
  - Phase 1 and/or phase 5 may be lagged.
  - Phase 3 and/or phase 7 may be lagged.
  - Reposition existing signal heads numbered 21,22 and 41.
  - Set all detector units to presence mode.
  - Incorporate Microwave Detection system for vehicle detection.
  - Provide the Engineer with the Manufacturer's approved Microwave Detection locations and mounting heights to obtain detection zones as shown.
  - Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
  - Closed loop system data: Master Asset #10317 Controller Asset #0626



Signal Upgrade  
Temporary Design 4  
Construction Phases 2,3

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

<p>HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554 (919) 546-8997</p>	<p>NC 211 (Southport-Supply Road) at SR 1969 (Old Long Beach Road)</p>	<p>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031464 NATASHA R. SIMMONS</p>
	<p>Division 03 Brunswick Co. Southport</p> <p>PLAN DATE: June 2017 REVIEWED BY: A.D. Klinksiek</p> <p>PREPARED BY: A.H. Thornburg REVIEWED BY: N.R. Simmons</p>	<p>9/10/2021</p> <p>SIGNATURE DATE</p> <p>SIG. INVENTORY NO. 03-0626T4</p>