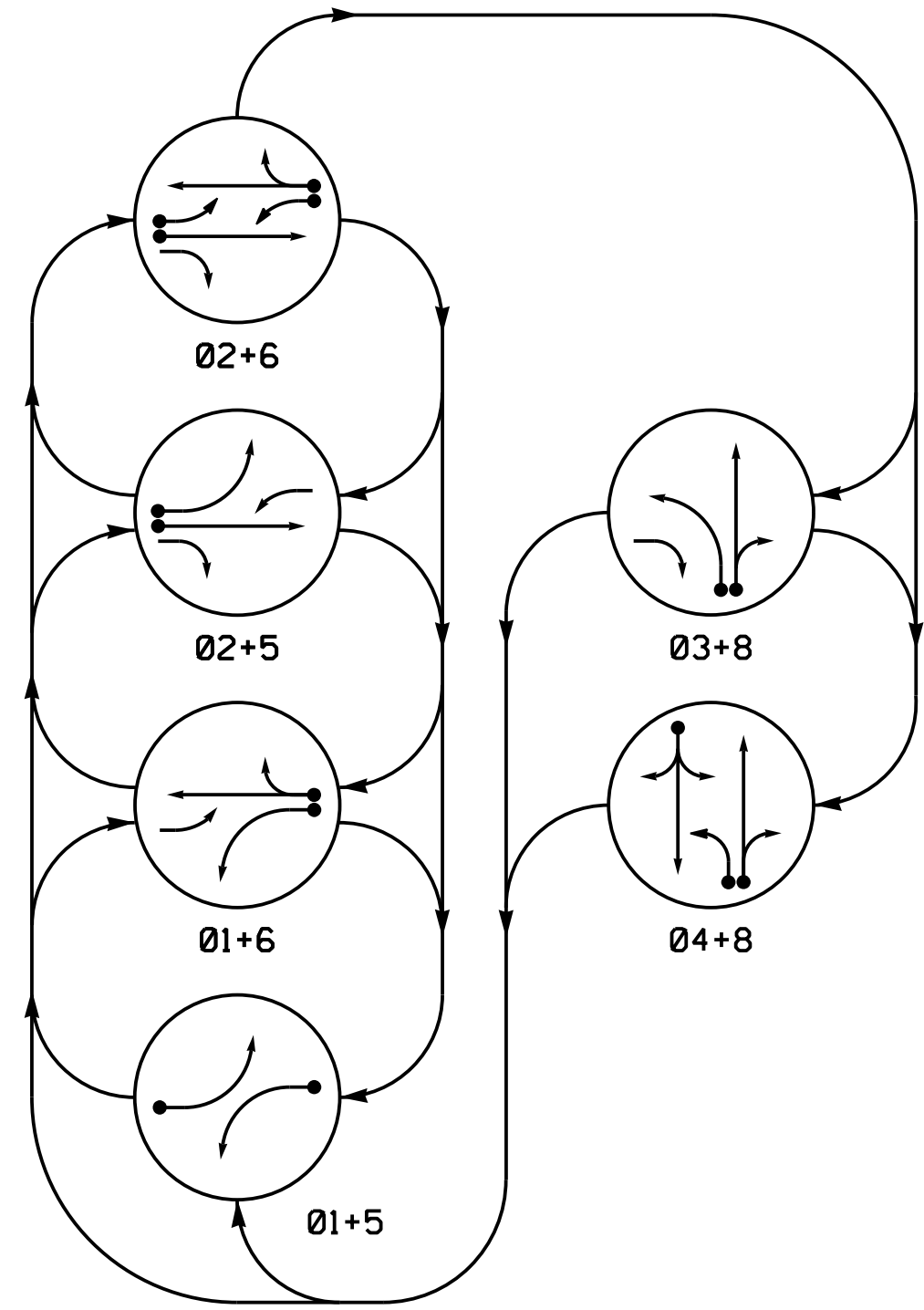
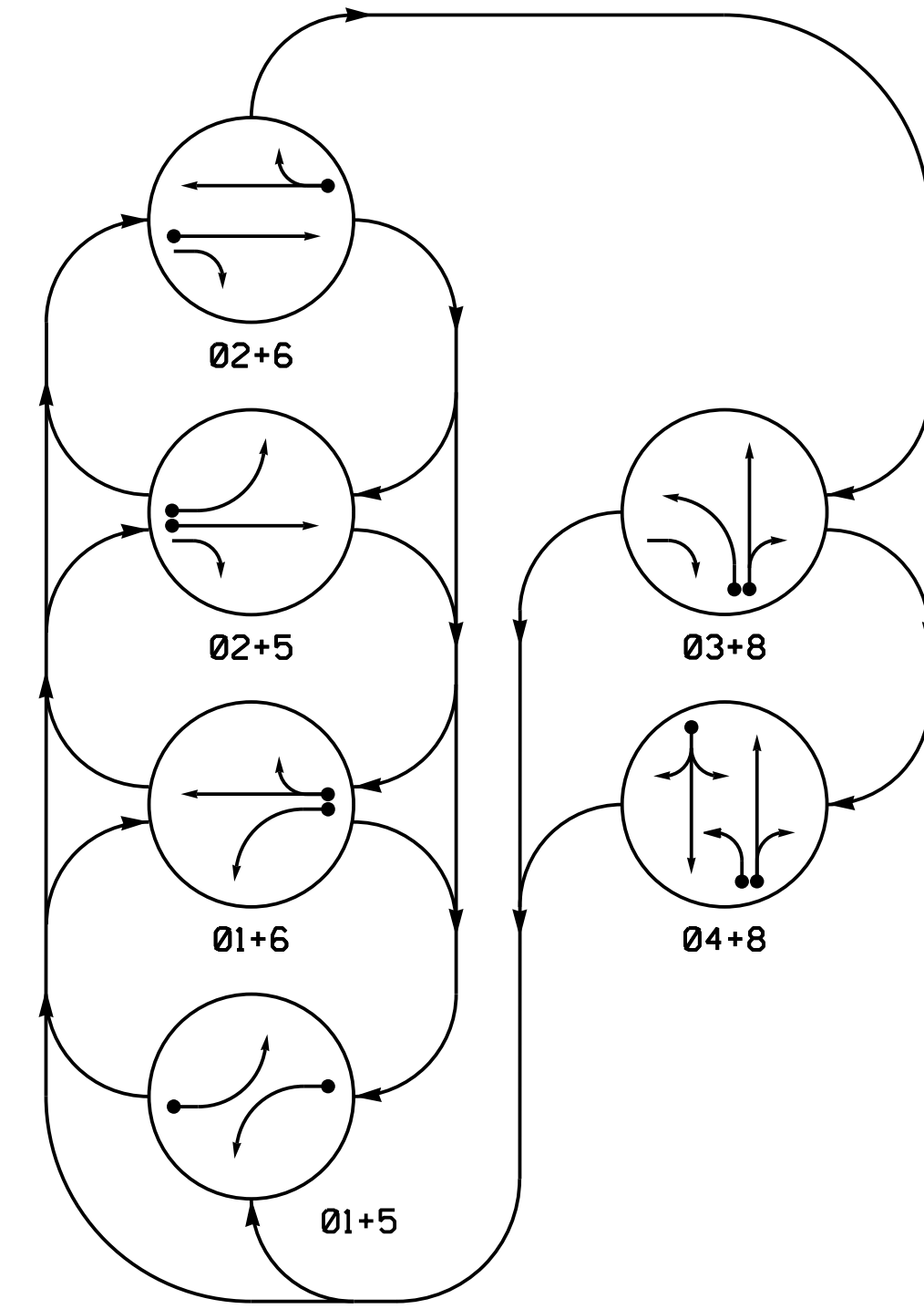


DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- ◄●► DETECTED MOVEMENT
- ◄◄◄ UNDETECTED MOVEMENT (OVERLAP)
- ◄.....► UNSIGNALIZED MOVEMENT
- ◄---► PEDESTRIAN MOVEMENT

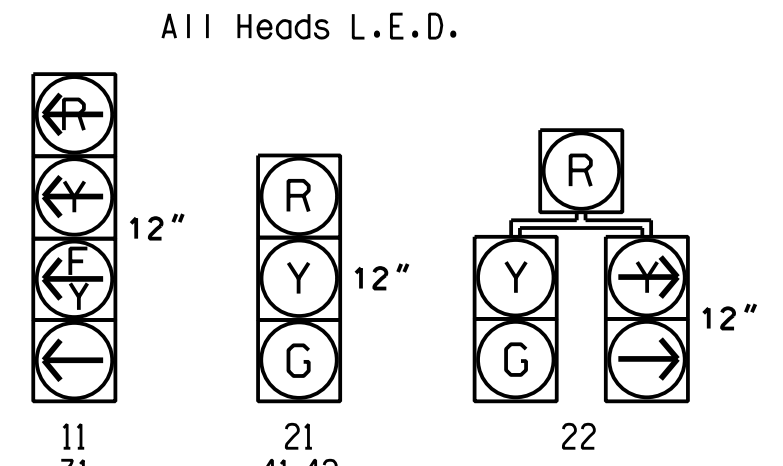
DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+8	04+8	04+8	04+8
11	—	—	—	—	—	—	—	—
21	R	R	G	G	R	R	Y	Y
22	R	R	G	G	R	R	Y	Y
31	R	R	R	R	—	—	—	—
41,42	R	R	R	R	R	G	R	Y
51	—	—	—	—	—	—	—	—
61,62	R	G	R	G	R	R	Y	Y
81,82	R	R	R	R	G	G	R	Y

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+8	04+8	04+8	04+8
11	—	—	—	—	—	—	—	—
21	R	R	G	G	R	R	Y	Y
22	R	R	G	G	R	R	Y	Y
31	R	R	R	R	—	—	—	—
41,42	R	R	R	R	R	G	R	Y
51	—	—	—	—	—	—	—	—
61,62	R	G	R	G	R	R	Y	Y
81,82	R	R	R	R	G	G	R	Y

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

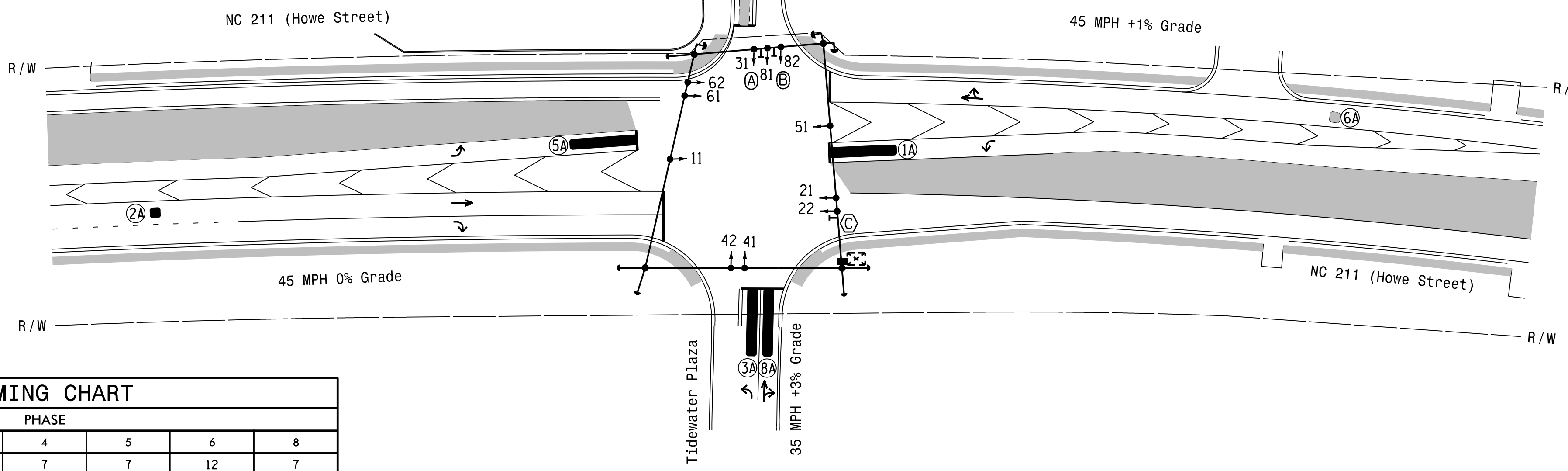
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING								
				NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	*	*	1	Y	Y	-	-	***15	-	-
2A	6X6	300	*	*	**6	Y	Y	-	-	3	-	-
3A	6X40	0	*	*	3	Y	Y	-	-	15	-	-
4A	6X40	0	*	*	8	Y	Y	-	-	3	-	-
5A	6X40	0	*	*	4	Y	Y	-	-	10	-	-
6A	6X6	300	*	*	5	Y	Y	-	-	***15	-	-
8A	6X40	0	*	*	**2	Y	Y	-	-	3	-	-
					6	Y	Y	-	-	-	-	-
					8	Y	Y	-	-	10	-	-

- * Multizone Microwave Detection.
- ** Disable phase 2 and 6 call for 1A and 5A during alternate phasing operation.
- *** Reduce delay to 3 seconds during alternate phasing operation.

6 Phase Fully Actuated (NC 133 Closed Loop System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
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. Omit Phase 3 during Phase 4 on.
5. Reposition existing signal heads numbered 11,21,22,and 51.
6. Set all detector units to presence mode.
7. The Division Traffic Engineer will determine the hours of use for each phasing plan.
8. Incorporate Microwave Detection system for vehicle detection.
9. Provide the Engineer with the Manufacturer's approved Microwave Detection locations and mounting heights to obtain detection zones as shown.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
11. Closed loop system data: Controller Asset #: 0897.



OASIS 2070 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	8	
Min Green 1 *	7	12	7	7	7	12	7	
Extension 1 *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	
Max Green 1 *	20	90	20	25	20	90	25	
Yellow Clearance	3.0	4.5	3.0	3.7	3.0	4.5	3.7	
Red Clearance	2.6	1.4	3.5	2.8	2.9	1.4	2.8	
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Walk 1 *	-	-	-	-	-	-	-	
Don't Walk 1	-	-	-	-	-	-	-	
Seconds Per Actuation *	-	2.5	-	-	-	2.5	-	
Max Variable Initial *	-	34	-	-	-	34	-	
Time Before Reduction *	-	15	-	-	-	15	-	
Time To Reduce *	-	30	-	-	-	30	-	
Minimum Gap	-	3.0	-	-	-	3.0	-	
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.

LEGEND

PROPOSED	EXISTING
○→ Traffic Signal Head	●→ Traffic Signal Head
○→ Modified Signal Head	○→ Modified Signal Head
⊥ Sign	⊥ Sign
⊥ Pedestrian Signal Head With Push Button & Sign	⊥ Pedestrian Signal Head With Push Button & Sign
○ Signal Pole with Guy	○ Signal Pole with Guy
⊥ Signal Pole with Sidewalk Guy	⊥ Signal Pole with Sidewalk Guy
⊠ Controller & Cabinet	⊠ Controller & Cabinet
□ Junction Box	□ Junction Box
— 2-in Underground Conduit	— 2-in Underground Conduit
N/A Right of Way	N/A Right of Way
→ Directional Arrow	→ Directional Arrow
▬ Microwave Detection Zone	▬ Microwave Detection Zone
▬ Construction Zone	▬ Construction Zone
(A) Left Arrow "ONLY" Sign (R3-5L)	(A) Left Arrow "ONLY" Sign (R3-5L)
(B) Combined Through and Right Arrow Sign (R3-6R)	(B) Combined Through and Right Arrow Sign (R3-6R)
(C) Right Arrow "ONLY" Sign (R3-5R)	(C) Right Arrow "ONLY" Sign (R3-5R)

Signal Upgrade
Temporary Design 3
Construction Phase 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	Prepared for: NC 211 (Howe Street) at Tidewater Plaza/Sandy Lane		SEAL
	Division 03 Brunswick Co. Southport PLAN DATE: June 2017 REVIEWED BY: A.D. Klinksiek PREPARED BY: A.H. Thornburg REVIEWED BY: N.R. Simmons	REVISIONS INIT. DATE SIGNATURE DATE 9/10/2021 SIG. INVENTORY NO. 03-0897T3	

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