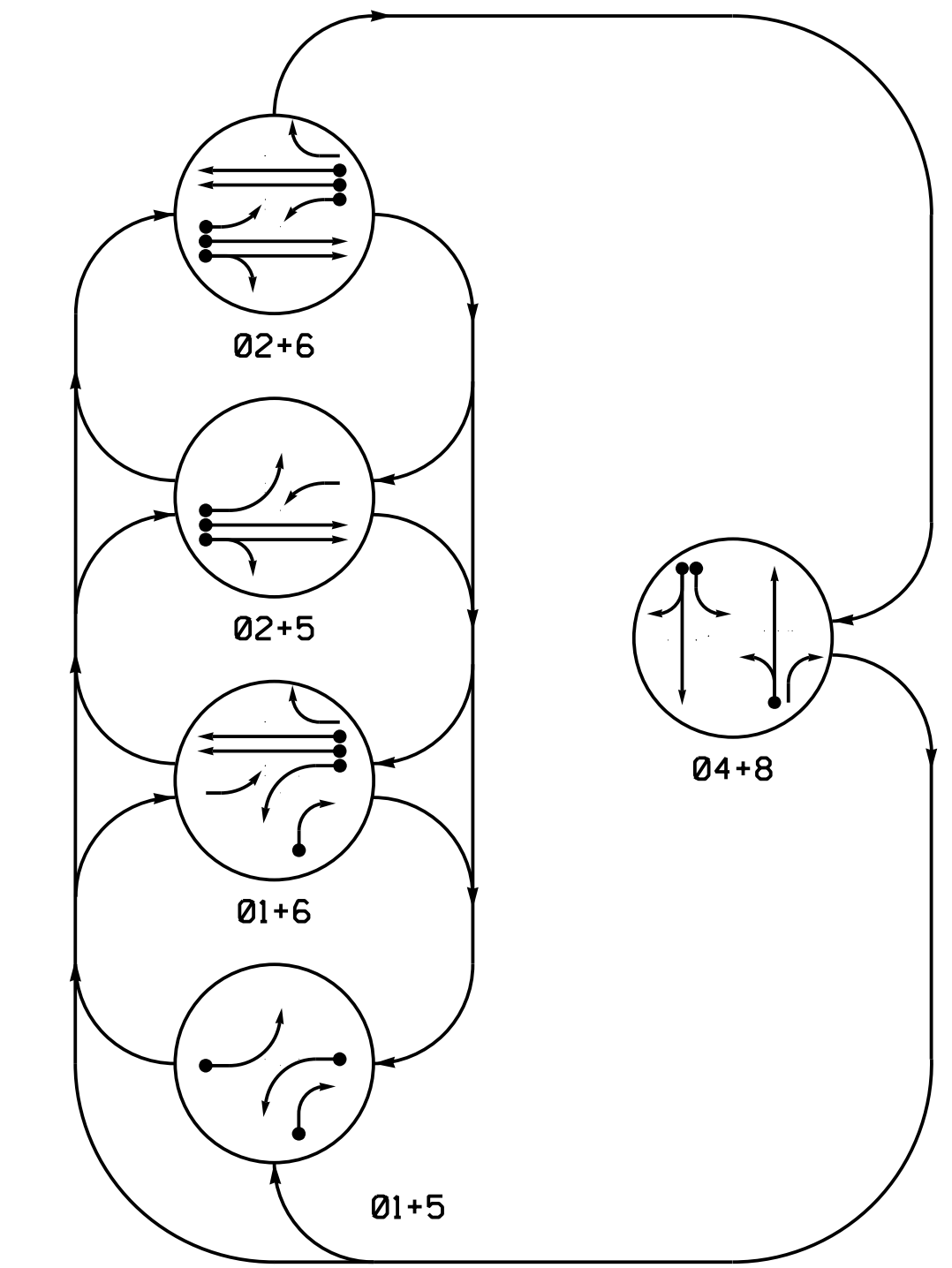
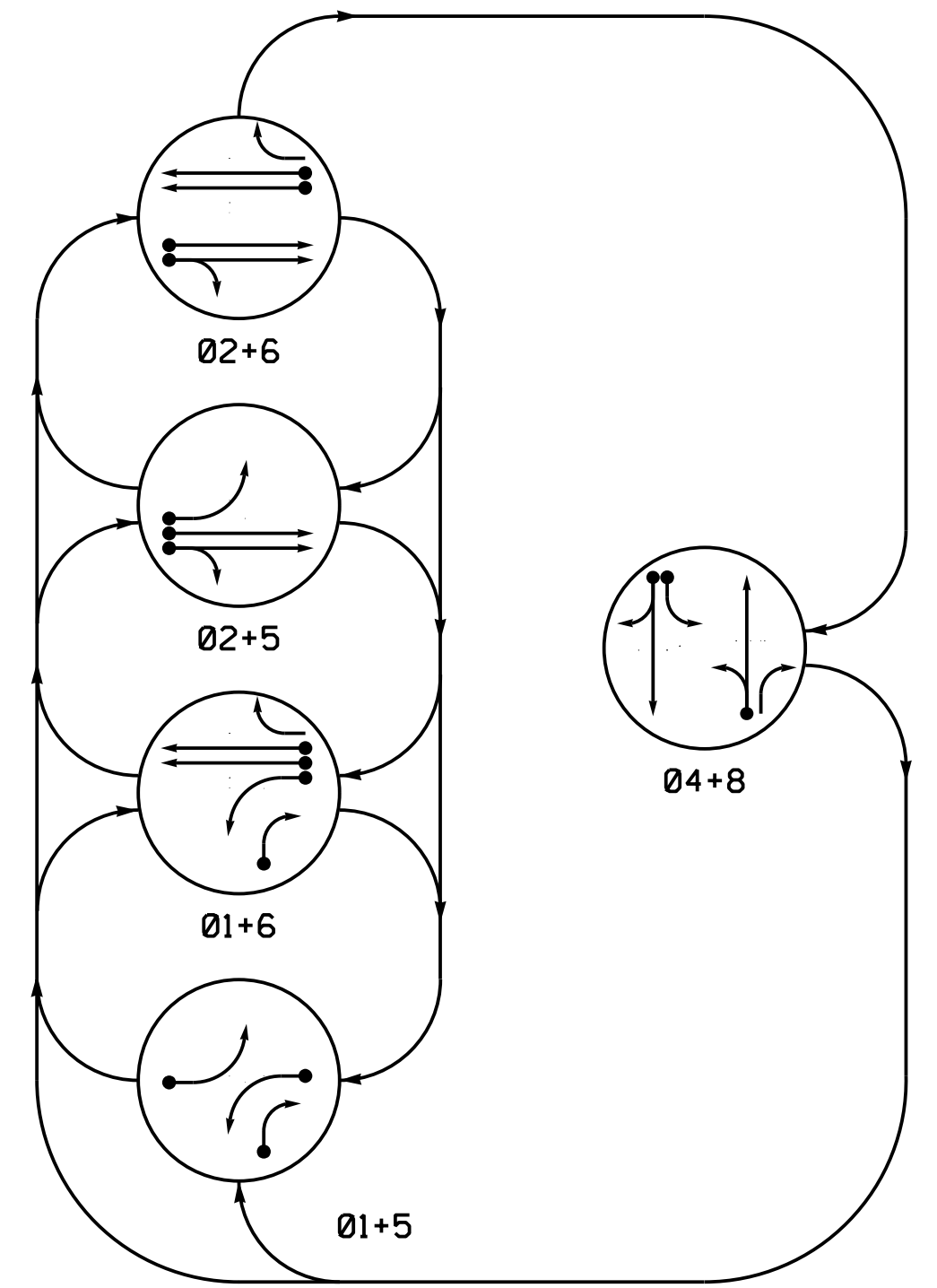


DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	F
11	—	—	—	—	—	—
21,22	R	R	G	G	R	Y
41	R	R	R	R	F	Y
42,43	R	R	R	R	G	R
51	—	—	—	—	—	—
61,62	R	G	R	G	R	Y
81	R	R	R	R	G	R
82	R	R	R	R	G	R

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	F
11	—	—	R	R	R	Y
21,22	R	R	G	G	R	Y
41	R	R	R	R	F	Y
42,43	R	R	R	R	G	R
51	—	—	R	R	R	Y
61,62	R	G	R	G	R	Y
81	R	R	R	R	G	R
82	R	R	R	R	G	R

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

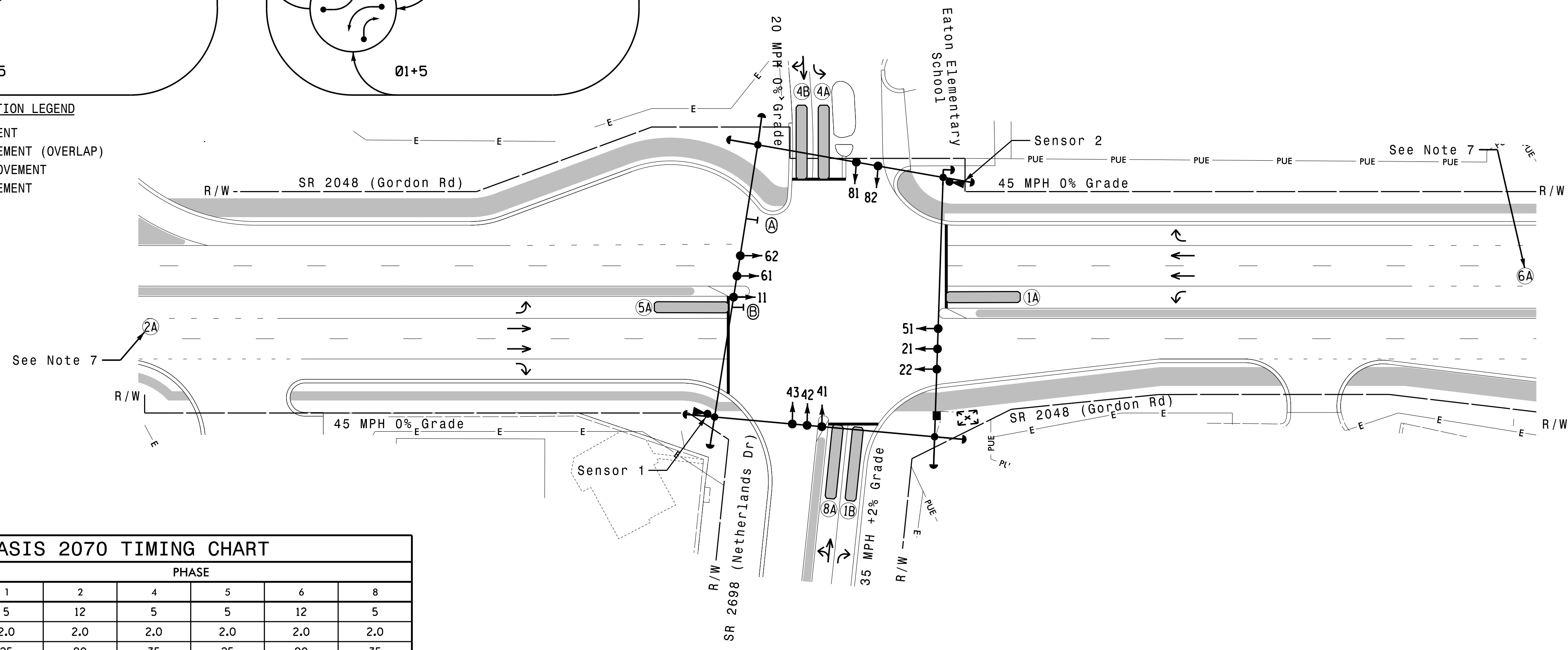
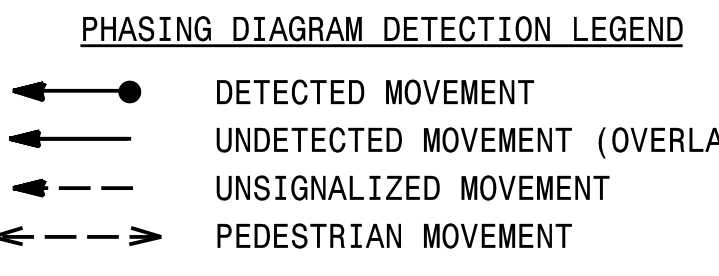
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD		
					PHASE	CALLING	EXTENSION	STRETCH TIME			DELAY TIME	
1A	6X40	0	*	*	1	Y	Y	-	-	15**	-	-
1B	6X40	0	*	*	1	Y	Y	-	-	15	-	-
4A	6X40	0	*	*	4	Y	Y	-	-	3	-	-
4B	6X40	0	*	*	4	Y	Y	-	-	10	-	-
5A	6X40	0	*	*	5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

* Multizone Microwave Detection
 ** Disable Delay During Alternate Phasing Operation.
 # Disable phase call for loop(s) during alternate phasing.

5 Phase Fully Actuated Wilmington Signal System

NOTES

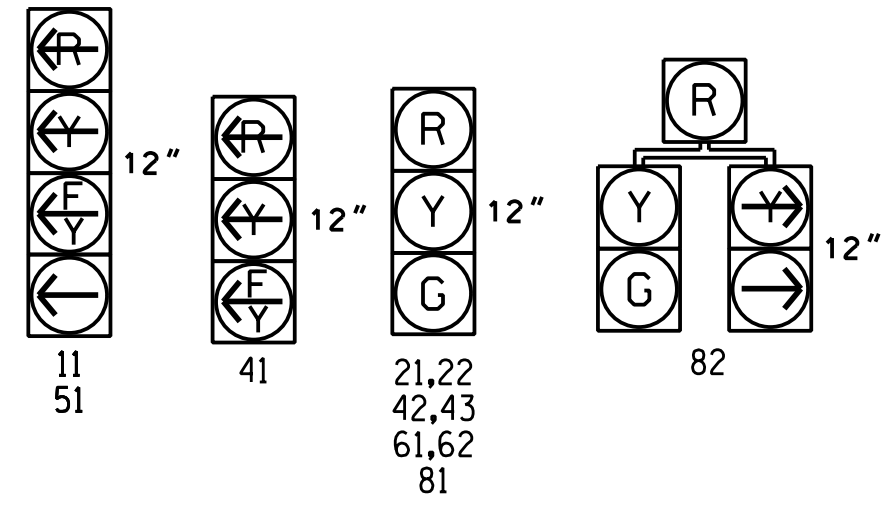
- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phases 1 and/or 5 may be lagged.
- Reposition existing signal heads numbered 11, 21, 22, 51, 61, and 62 and existing sign (A).
- Set all detector units to presence mode.
- The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Signal system data: Controller Asset #0847.



OASIS 2070 TIMING CHART

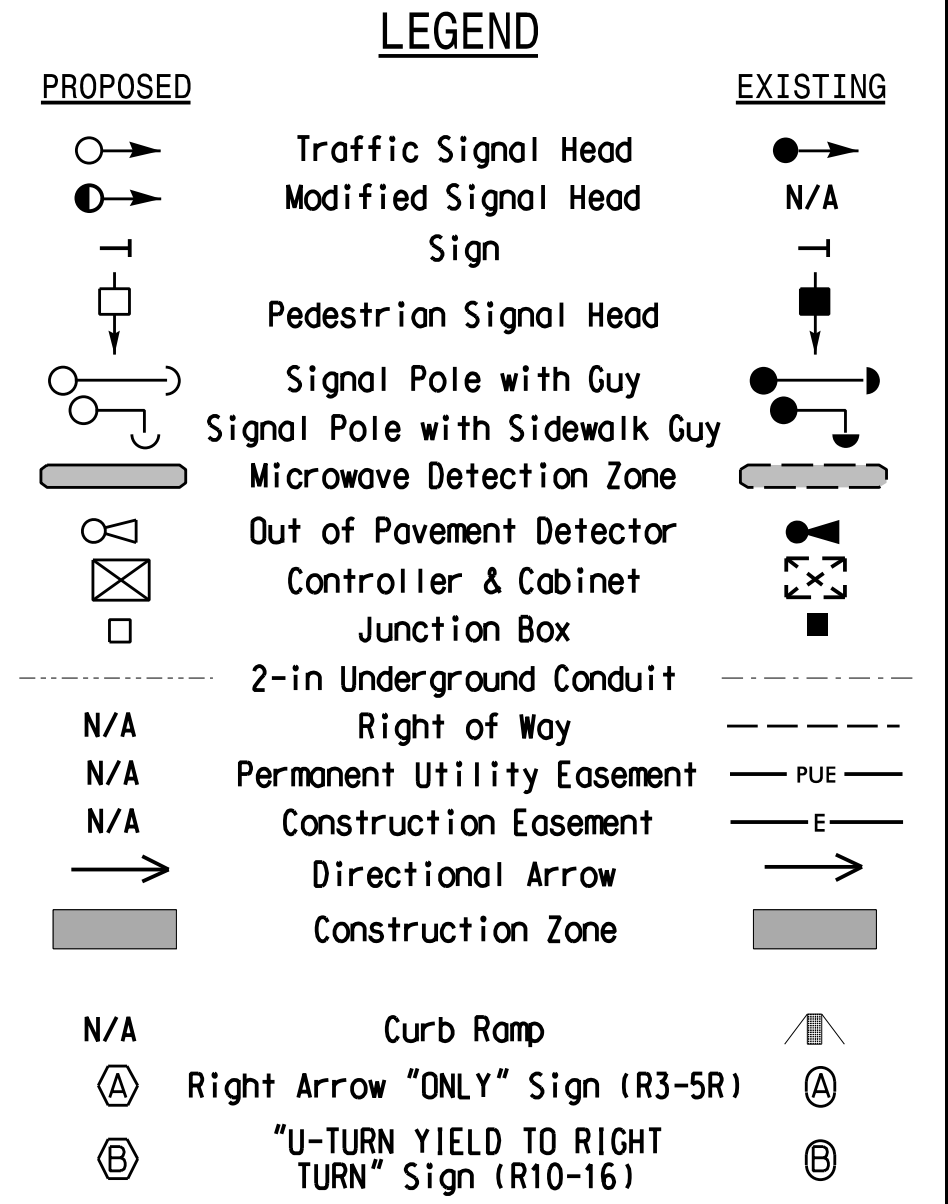
FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	5	12	5	5	12	5
Extension 1 *	2.0	2.0	2.0	2.0	2.0	2.0
Max Green 1 *	25	90	35	25	90	35
Yellow Clearance	3.0	4.5	3.7	3.0	4.5	3.7
Red Clearance	3.1	1.6	3.5	2.9	1.6	3.5
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per 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

SIGNAL FACE I.D.
All Heads L.E.D.



RADAR DETECTION SYSTEM

FUNCTION	Sensor 1	Sensor 2
Channel	1	1
Phase	2	6
Direction of Travel	EB	WB
Detection Zone (ft)	100-600	100-600
Enable Speed	Y	Y
Speed Range (mph)	35-100	35-100
Enable Estimated Time of Arrival	Y	Y
Estimated Time of Arrival (sec)	1.0-6.5	1.0-6.5



Signal Upgrade-
Temporary Design 2
(Construction Phase 2A)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for: **SR 2048 (Gordon Rd) at SR 2698 (Netherlands Dr) / Eaton Elementary School**

Division 3 New Hanover County Wilmington

PLAN DATE: May 2022 REVIEWED BY: N.K. Vlanich

PREPARED BY: E.E. Tiller REVIEWED BY: N.R. Simmons

750 N. Greenfield Pkwy, Corner, NC 27528

SCALE: 0 40 1"=40'

REVISIONS: INITI. DATE

DocuSigned by: **Nelasha R. Simmons** 5/17/2024

SIGNATURE: **Nelasha R. Simmons** DATE: 5/17/2024

SIG. INVENTORY NO. 03-084712