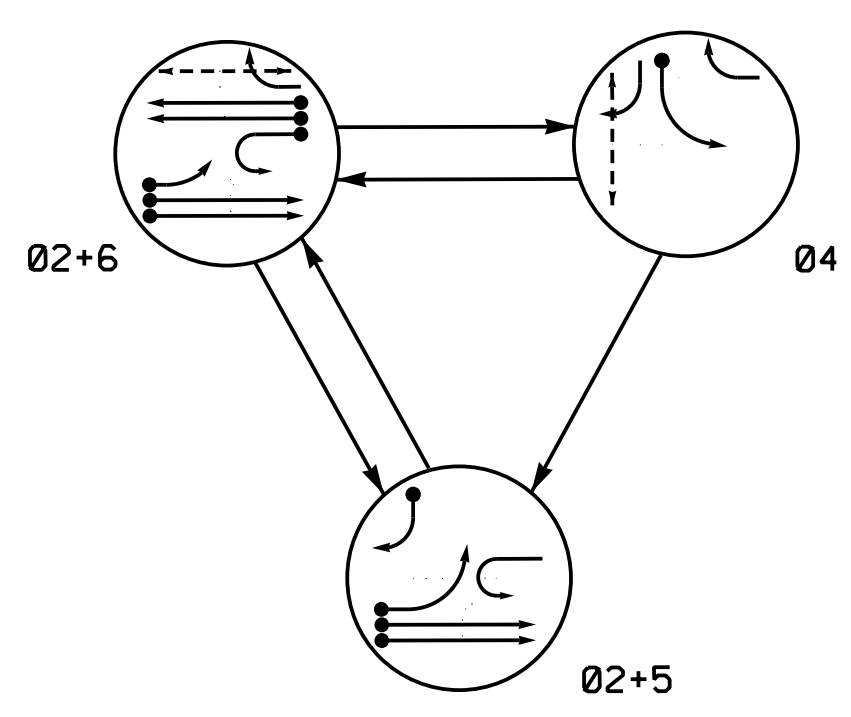
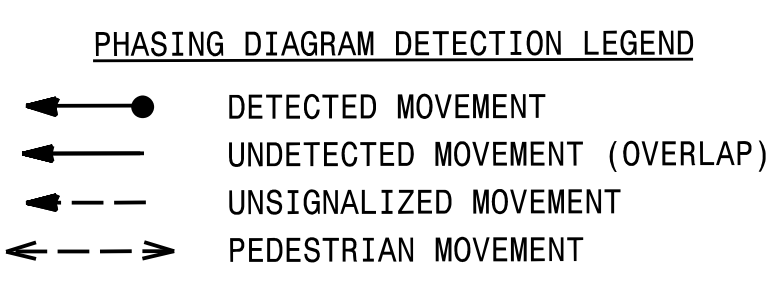
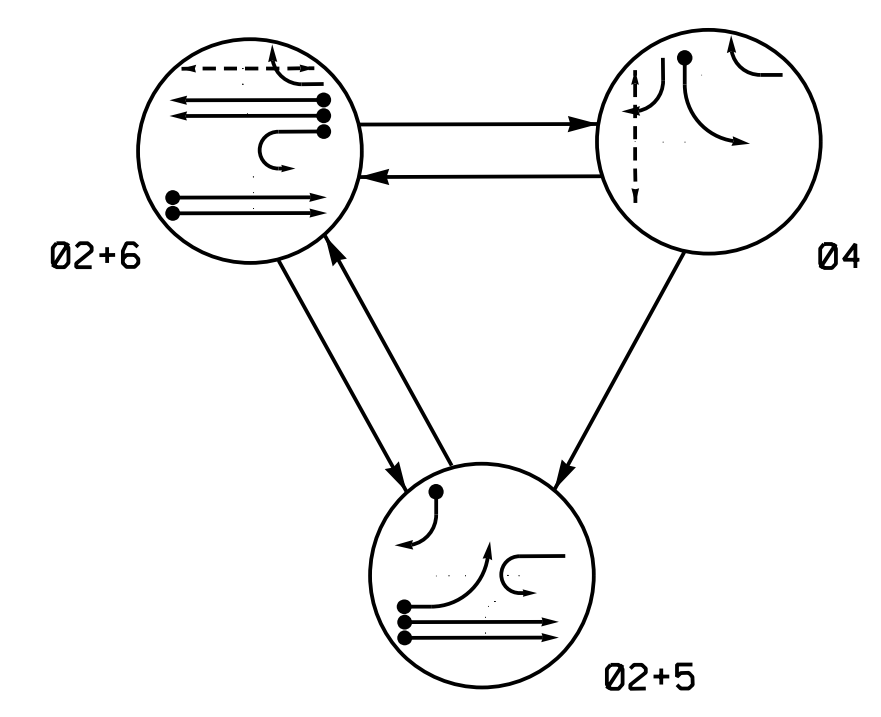


**DEFAULT PHASING DIAGRAM**



**ALTERNATE PHASING DIAGRAM**



**DEFAULT PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE			
	02+5	02+6	04	F
21,22	G	G	R	Y
41,43	-R	-R	-R	-R
42	-F	R	F	R
51	-F	-R	-R	-Y
61	(F)	(F)	(R)	(Y)
62,63	R	G	R	Y
64	R	F	-Y	-Y
P41,P42	DW	DW	W	DRK
P61,P62	DW	W	DW	DRK

**ALTERNATE PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE			
	02+5	02+6	04	F
21,22	G	G	R	Y
41,43	-R	-R	-R	-R
42	-F	R	F	R
51	-F	-R	-R	-Y
61	(F)	(F)	(R)	(Y)
62,63	R	G	R	Y
64	R	F	-Y	-Y
P41,P42	DW	DW	W	DRK
P61,P62	DW	W	DW	DRK

**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

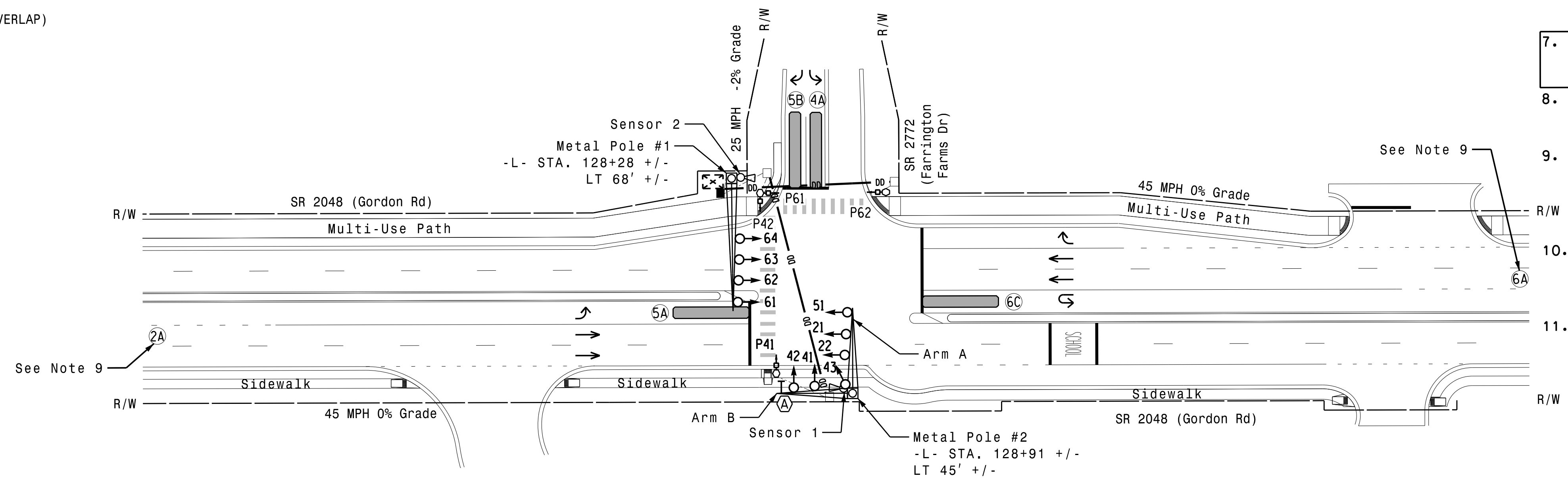
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
4A	6X40	0	*	*	4	Y	Y	-	-	-	-	-
5A	6X40	0	*	*	5	Y	Y	-	-	15**	-	-
5B	6X40	0	*	*	5	Y	Y	-	-	15	-	-
6C	6X40	0	*	*	6	Y	Y	-	-	-	-	-

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

**3 Phase Fully Actuated Wilmington Signal System**

**NOTES**

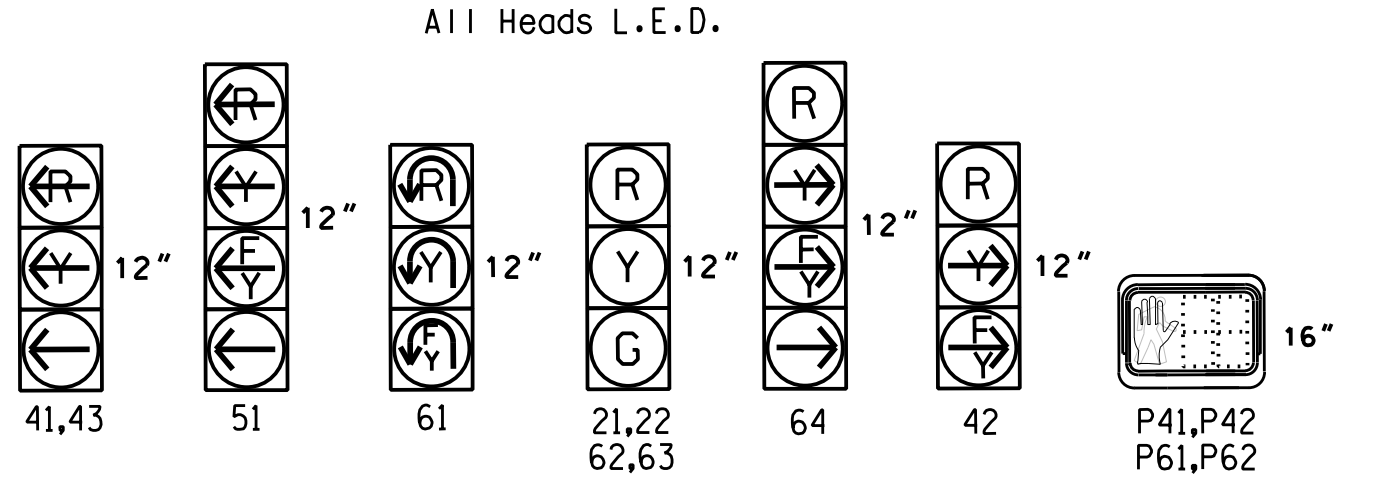
- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 5 may be lagged.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- All pedestrian pushbuttons shall be located in the field by the Division Traffic Engineer before installation.
- The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
- This intersection uses multizone microwave detection. Install the 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 #1216.



**OASIS 2070 TIMING CHART**

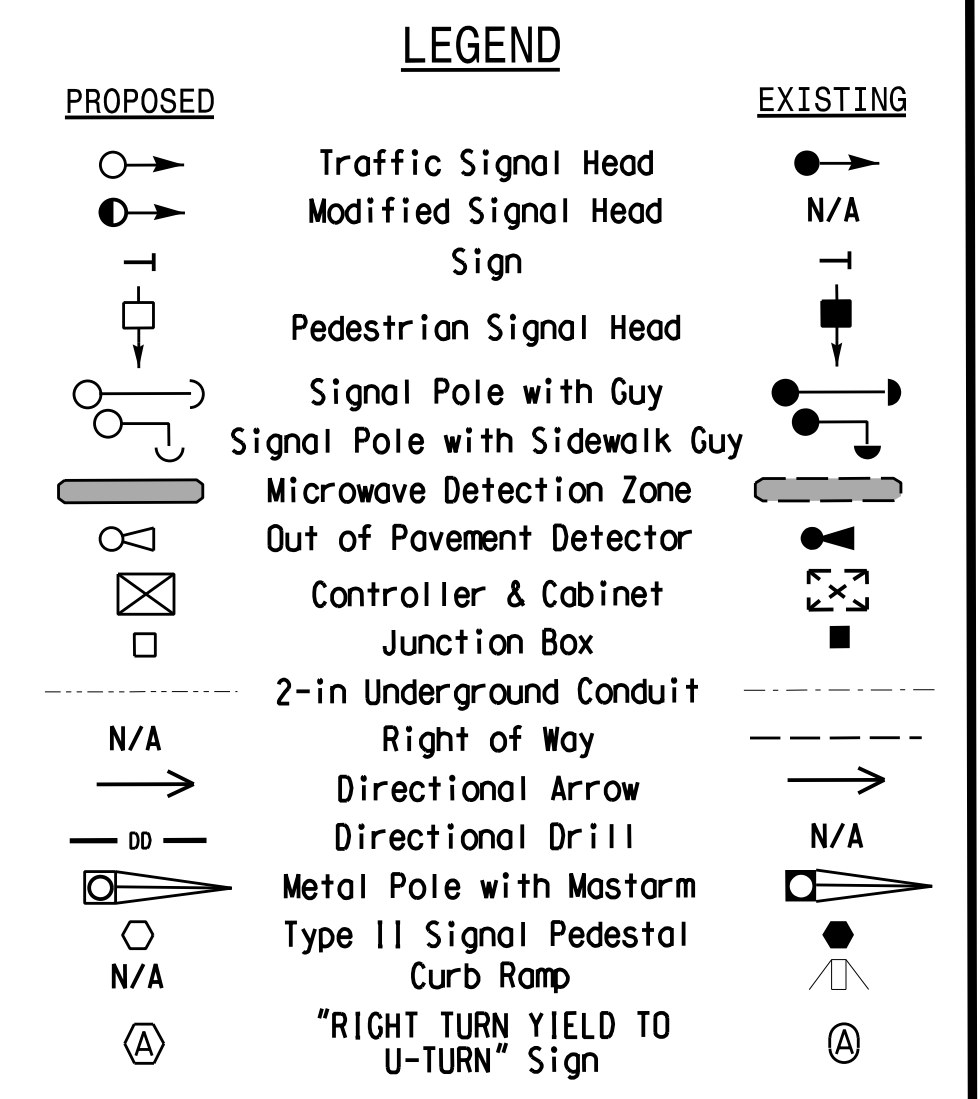
FEATURE	PHASE			
	2	4	5	6
Min Green 1 *	12	5	5	12
Extension 1 *	2.0	2.0	2.0	2.0
Max Green 1 *	90	30	20	90
Yellow Clearance	4.5	3.0	3.0	4.5
Red Clearance	1.5	3.2	2.6	1.5
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	7	-	7
Don't Walk 1	-	21	-	11
Advanced Walk *	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	-	YELLOW
Dual Entry	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON

**SIGNAL FACE I.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 - Final Design**

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

	SR 2048 (Gordon Rd) at SR 2772 (Farrington Farms Dr)		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 03464 N. ASHA R. SIMMONS
	Division 3 New Hanover County Wilmington PLAN DATE: May 2022 PREPARED BY: E.E. Tiller REVISIONS:	REVIEWED BY: N.K. Vianich REVIEWED BY: N.R. Simmons DATE: 5/17/2024	