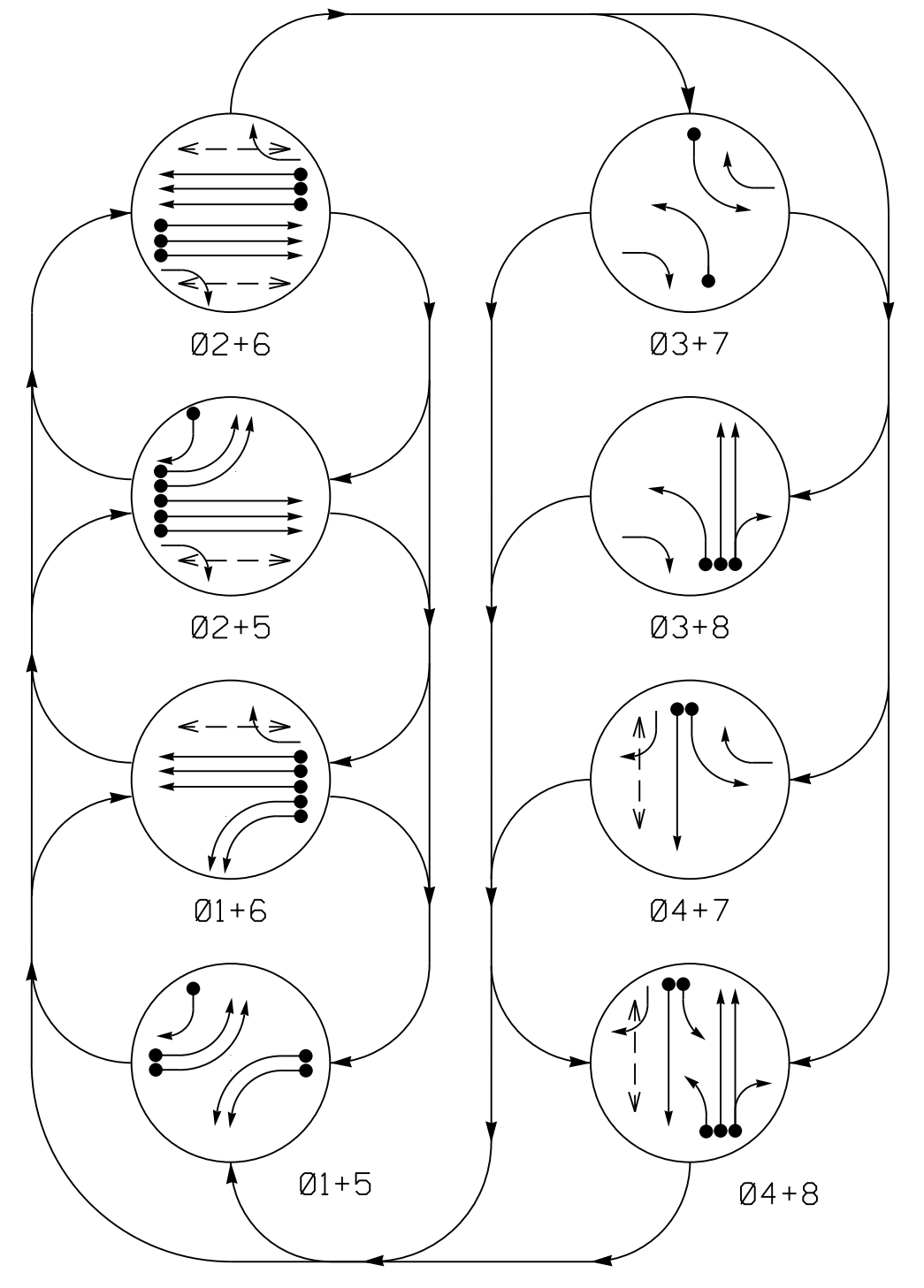


**PHASING DIAGRAM**



**PHASING DIAGRAM DETECTION LEGEND**

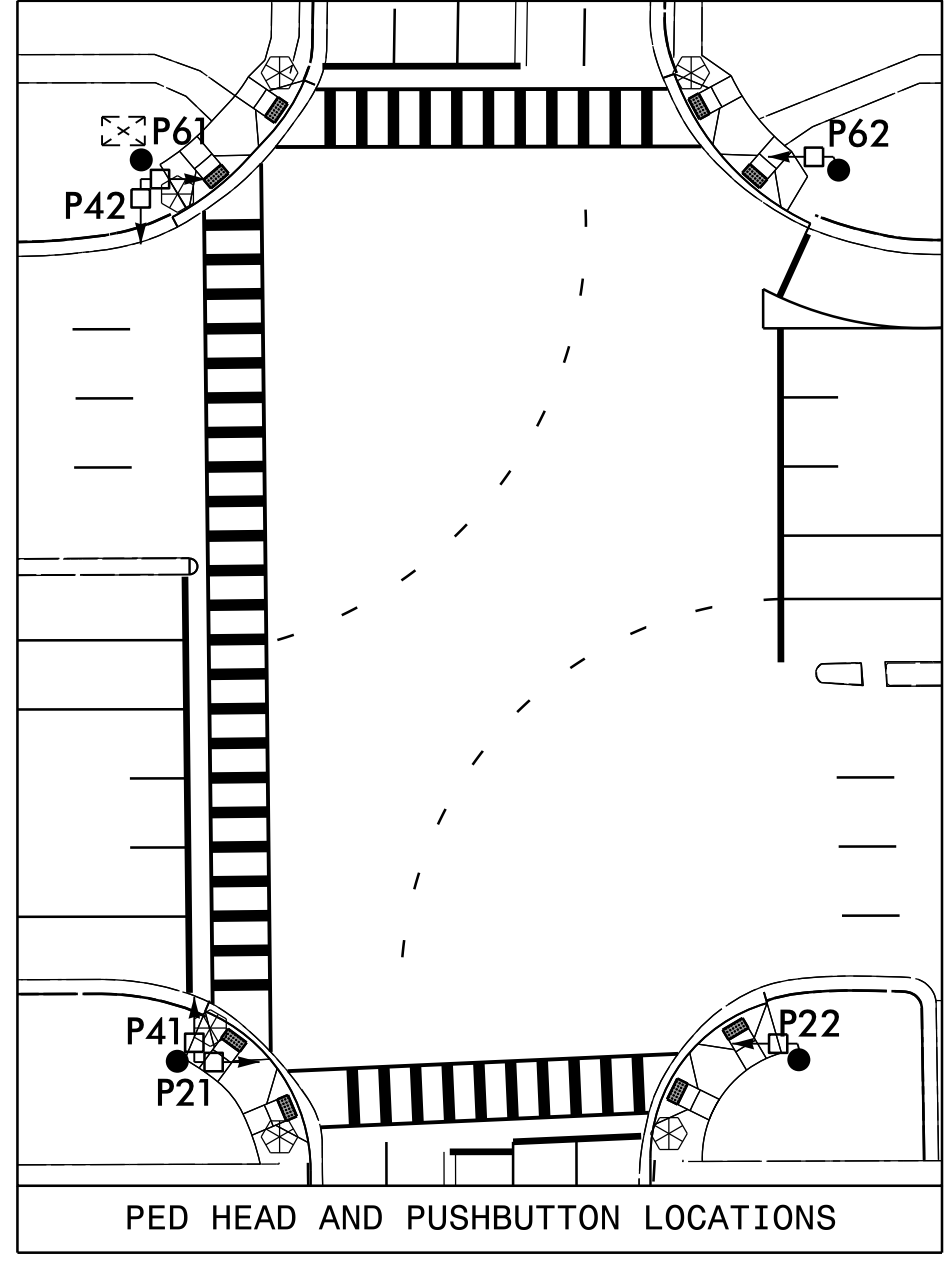
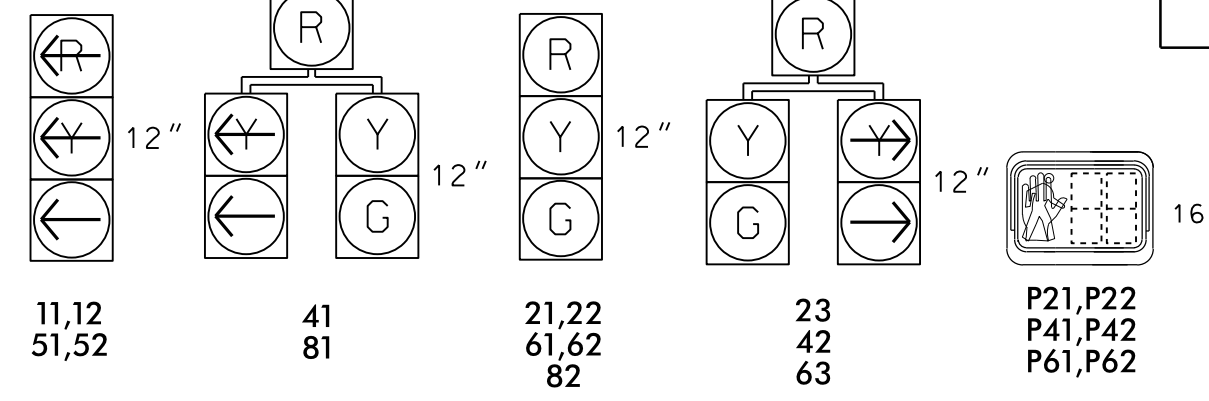
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE							
	01+5	02+5	03+5	04+5	01+6	02+6	03+6	04+6
11,12	←	←	←	←	←	←	←	←
21,22	R	R	G	G	R	R	R	Y
23	R	R	G	G	R	R	R	Y
41	R	R	R	R	G	G	R	Y
42	R	R	R	R	R	R	G	R
51,52	←	←	←	←	←	←	←	←
61,62	R	G	R	G	R	R	R	Y
63	R	G	R	G	R	R	R	Y
81	R	R	R	R	R	R	G	R
82	R	R	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DW	DW	DRK
P41,P42	DW	DW	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DW	DW	DRK

**SIGNAL FACE I.D.**

All Heads L.E.D.



**OASIS 2070L 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	2-4-2	Y	1	Y	Y	-	-	-
1B	6X40	0	2-4-2	Y	1	Y	Y	-	-	-
2A	6X6	300	6	Y	2	Y	Y	-	-	-
2B	6X6	300	6	Y	2	Y	Y	-	-	-
2C	6X6	300	6	Y	2	Y	Y	-	-	-
3A	6X40	0	2-4-2	Y	3	Y	Y	-	15	-
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	-
5B	6X40	0	2-4-2	Y	5	Y	Y	-	-	-
5C	6X40	0	2-4-2	Y	5	Y	Y	-	15	-
6A	6X6	300	5	Y	6	Y	Y	-	-	-
6B	6X6	300	5	Y	6	Y	Y	-	-	-
6C	6X6	300	5	Y	6	Y	Y	-	-	-
7A	6X40	0	2-4-2	Y	7	Y	Y	-	15	-
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	-
8B	6X40	0	2-4-2	Y	8	Y	Y	-	10	-

**8 Phase Fully Actuated (Wilmington Signal System)**

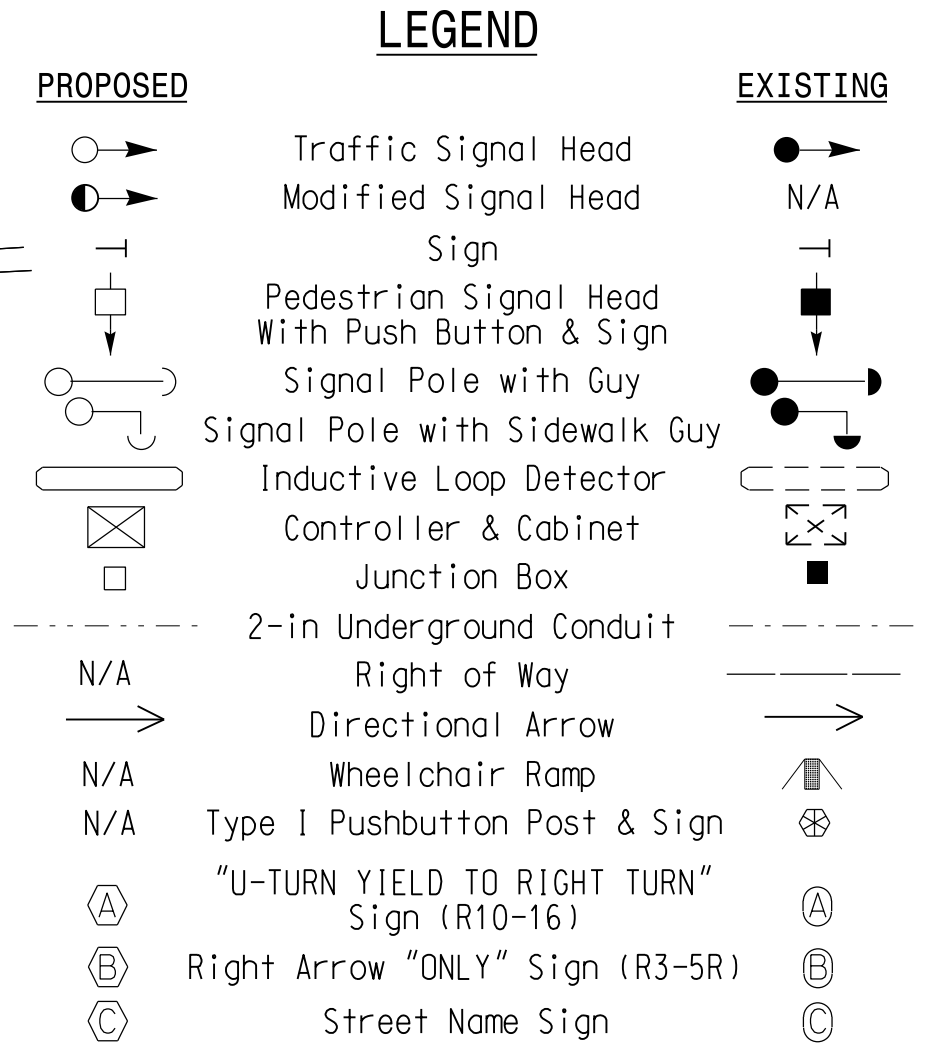
**NOTES**

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Omit phase 3 during phase 4 on.
4. Omit phase 7 during phase 8 on.
5. Phase 1 and/or phase 5 may be lagged.
6. Set all detector units to presence mode.
7. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
8. Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details.
9. Program pedestrian heads to countdown the flashing "DON'T WALK" time only.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
11. Signal system data: Controller Asset #0240.

**OASIS 2070L TIMING CHART**

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1 *	5	12	5	5	5	12	5	5
Extension 1 *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max Green 1 *	20	90	20	20	30	90	20	20
Yellow Clearance	3.0	4.4	3.0	3.7	3.0	4.6	3.0	3.8
Red Clearance	3.8	1.3	3.5	3.3	3.9	1.4	3.5	3.3
Walk 1 *	-	7	-	7	-	7	-	-
Don't Walk 1	-	15	-	38	-	16	-	-
Seconds Per Actuation *	-	1.2	-	-	-	1.2	-	-
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	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.



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

**Signal Upgrade**

PLANS PREPARED BY:  
**PARSONS**  
5540 CENTERVIEW DR., SUITE 217  
RALEIGH, NORTH CAROLINA 27606  
NC LICENSE NO: F-0246  
FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

Prepared for the Offices of:  
TRANSPORTATION MOBILITY AND SAFETY DIVISION  
STATE OF NORTH CAROLINA  
Signal Design Section  
750 N. Greenfield Pkwy, Garner, NC 27529

US 117-NC 132 (S. College Road) at SR 1272 (New Centre Drive)

Division 3 New Hanover County Wilmington

PLAN DATE: March 2016 REVIEWED BY:

PREPARED BY: J. M. Pickens REVIEWED BY:

REVISIONS: \_\_\_\_\_ INIT. DATE

Scale: 0 40  
1" = 40'

SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER  
SEAL 37950  
JASON M. PICKENS

DocuSigned by:  
Jason M. Pickens 3/30/2016  
SIG. INVENTORY NO. 03-0240

30-MAR-2016 11:37  
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