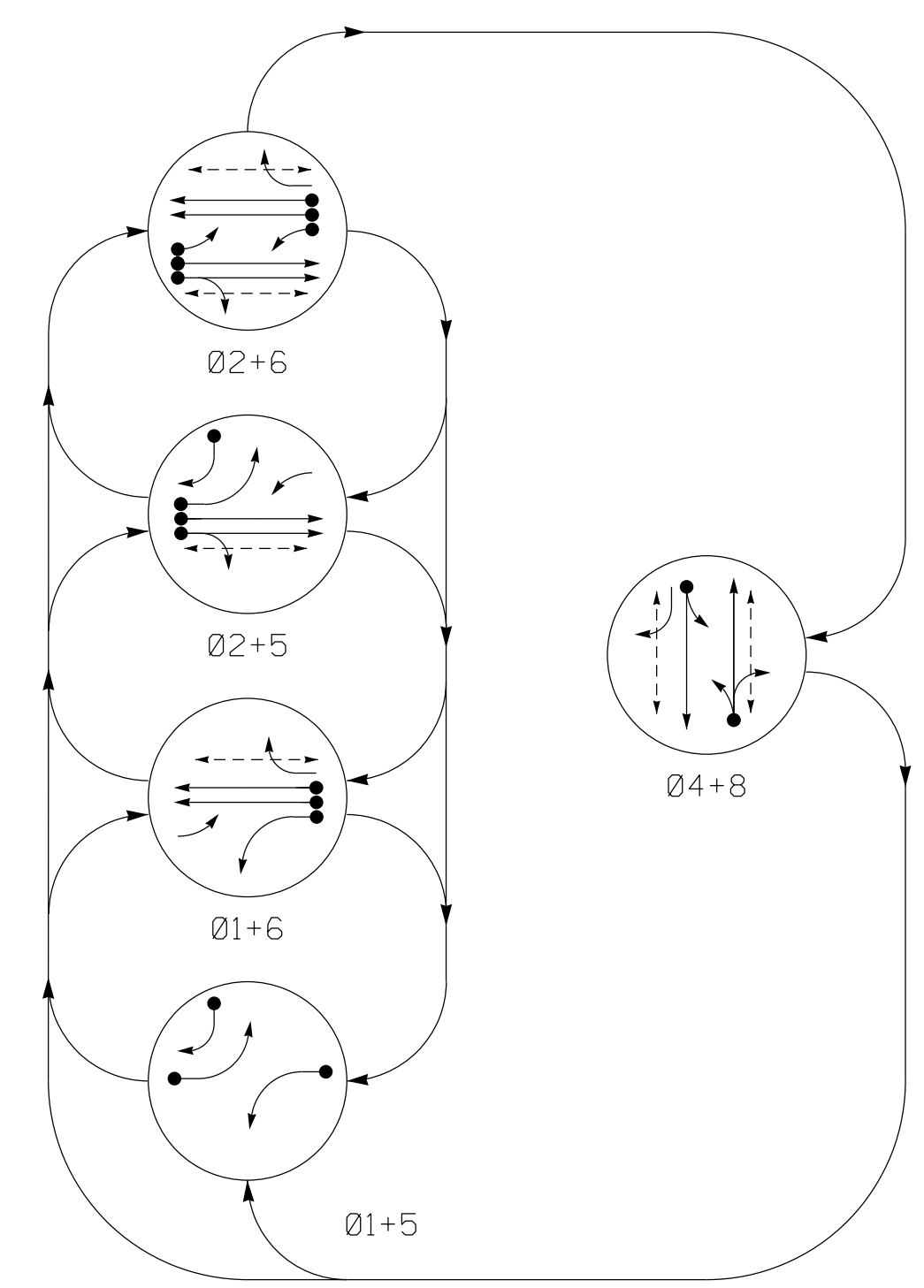


PHASING DIAGRAM



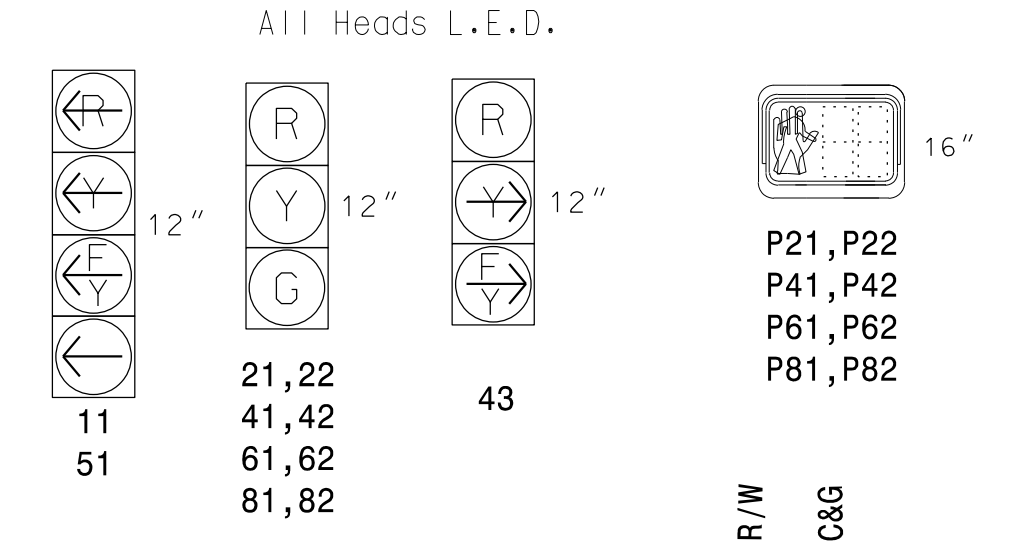
PHASING DIAGRAM DETECTION LEGEND

- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- ←○→ UNSIGNALIZED MOVEMENT
- ←○→ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE				
	01+5	01+6	02+5	02+6	FLASH
11	←	←	←	←	Y
21, 22	R	R	G	G	R
41, 42	R	R	R	R	G
43	←	←	←	←	R
51	←	←	←	←	Y
61, 62	R	G	G	R	Y
81, 82	R	R	R	R	G
P21,P22	DW	DW	W	W	DRK
P41,P42	DW	DW	DW	DW	DRK
P61,P62	DW	W	W	DW	DRK
P81,P82	DW	DW	DW	DW	DRK

SIGNAL FACE I.D.



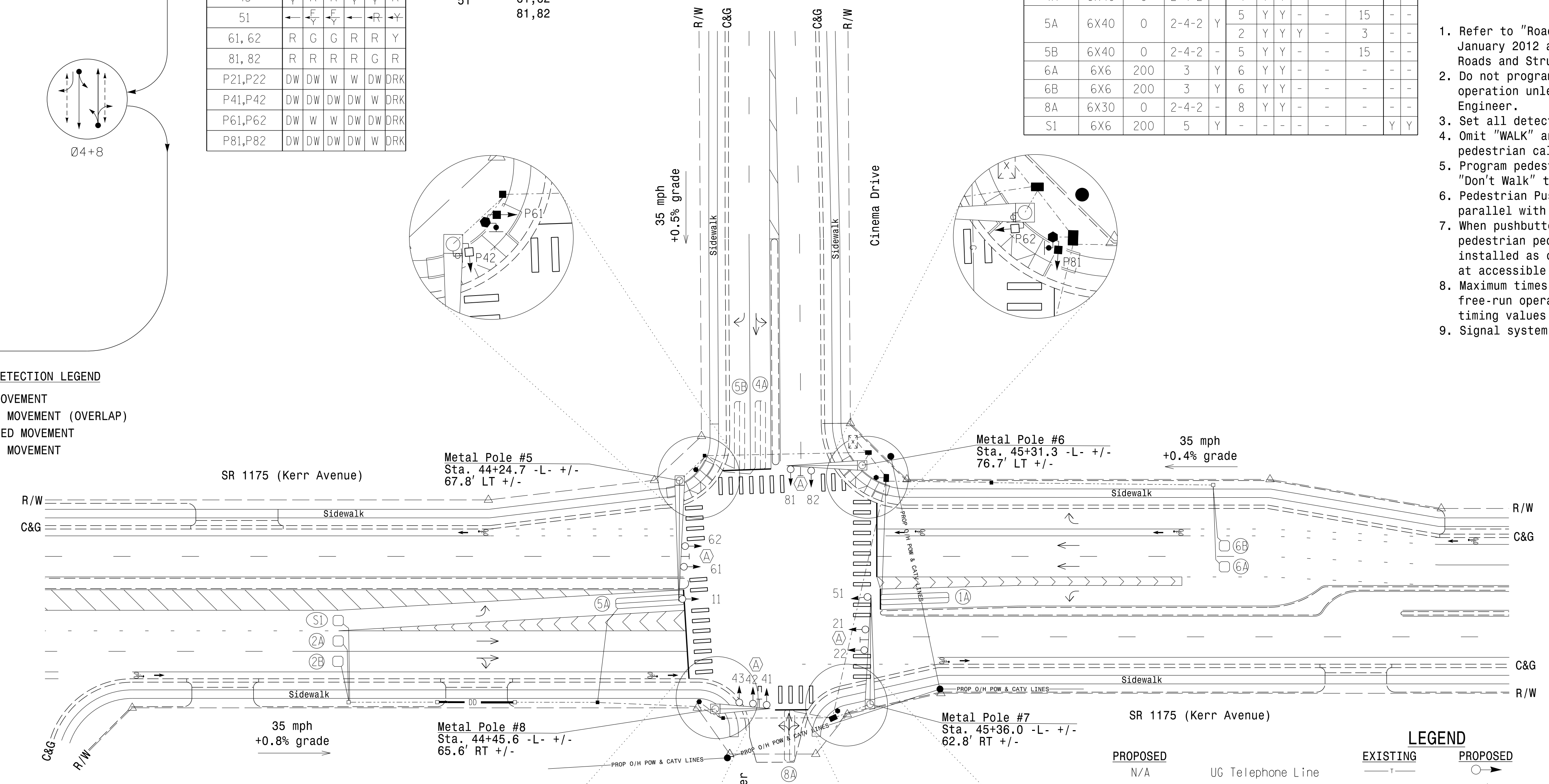
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTENSION	STRETCH TIME		
1A	6X40	0	2-4-2	Y	1	Y	Y	-	15	-
2A	6X6	200	5	Y	2	Y	Y	-	3	-
2B	6X6	200	5	Y	2	Y	Y	-	-	-
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	15	-
5B	6X40	0	2-4-2	-	5	Y	Y	-	15	-
6A	6X6	200	3	Y	6	Y	Y	-	-	-
6B	6X6	200	3	Y	6	Y	Y	-	-	-
8A	6X30	0	2-4-2	-	8	Y	Y	-	-	-
S1	6X6	200	5	Y	-	-	-	-	-	Y

5 Phase Fully Actuated (Wilmington Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 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.
- Pedestrian Pushbutton and sign shall be mounted parallel with associated crosswalk.
- When pushbuttons are mounted on metal pole or pedestrian pedestal, the pole or pedestal shall be installed as close as possible to the back of curb at accessible ramps to minimize reach range.
- 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 #1082.



OASIS 2070 TIMING CHART

FEATURE	PHASE							
	1	2	4	5	6	8		
Min Green 1 *	7	10	7	7	10	7		
Extension 1 *	2.0	6.0	2.0	2.0	6.0	2.0		
Max Green 1 *	20	80	35	30	80	35		
Yellow Clearance	3.0	3.8	3.8	3.0	3.8	3.2		
Red Clearance	3.1	2.3	2.5	3.1	2.3	3.3		
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0		
Walk 1 *	-	7	7	-	7	7		
Don't Walk 1	-	13	28	-	21	30		
Seconds Per Actuation *	-	1.5	-	-	1.5	-		
Max Variable Initial *	-	20	-	-	20	-		
Time Before Reduction *	-	15	-	-	15	-		
Time To Reduce *	-	25	-	-	25	-		
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		

* 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 be lower than 4 seconds.

LEGEND

PROPOSED	UG Telephone Line	EXISTING	PROPOSED	Traffic Signal Head	EXISTING
N/A	UG Gas Line	—	○	Sign	—
N/A	Drainage Pipe	—	□	Pedestrian Signal Head	—
N/A	Right of Way	—	□	Push Button & Sign	—
(A)	Street Name Sign	(A)	○	Metal Pole with Mastarm	—
			○	Type II Signal Pedestal	—
			□	Inductive Loop Detector	—
			□	Controller & Cabinet	—
			□	Junction Box	—
			□	Oversize Junction Box	—
			—	2-in Underground Conduit	—
			—	Directional Drill	N/A
			→	Directional Arrow	→

Signal Upgrade - Final Design

<p>750 N. Greenfield Pkwy, Garner, NC 27529</p>	<p>SR 1175 (Kerr Avenue) at Cinema Drive/ Shopping Center Driveway</p>		
	<p>Division 03 New Hanover County Wilmington</p>	<p>PLANNED BY: June 2014</p>	
<p>PREPARED BY: IW BERDEAU</p>	<p>REVIEWED BY: MB TOTH</p>	<p>REVISIONS</p>	<p>INIT. DATE</p>
<p>1"=40'</p>	<p>0 40</p>	<p>DATE</p>	<p>DATE</p>

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NGBEES #F-0326

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