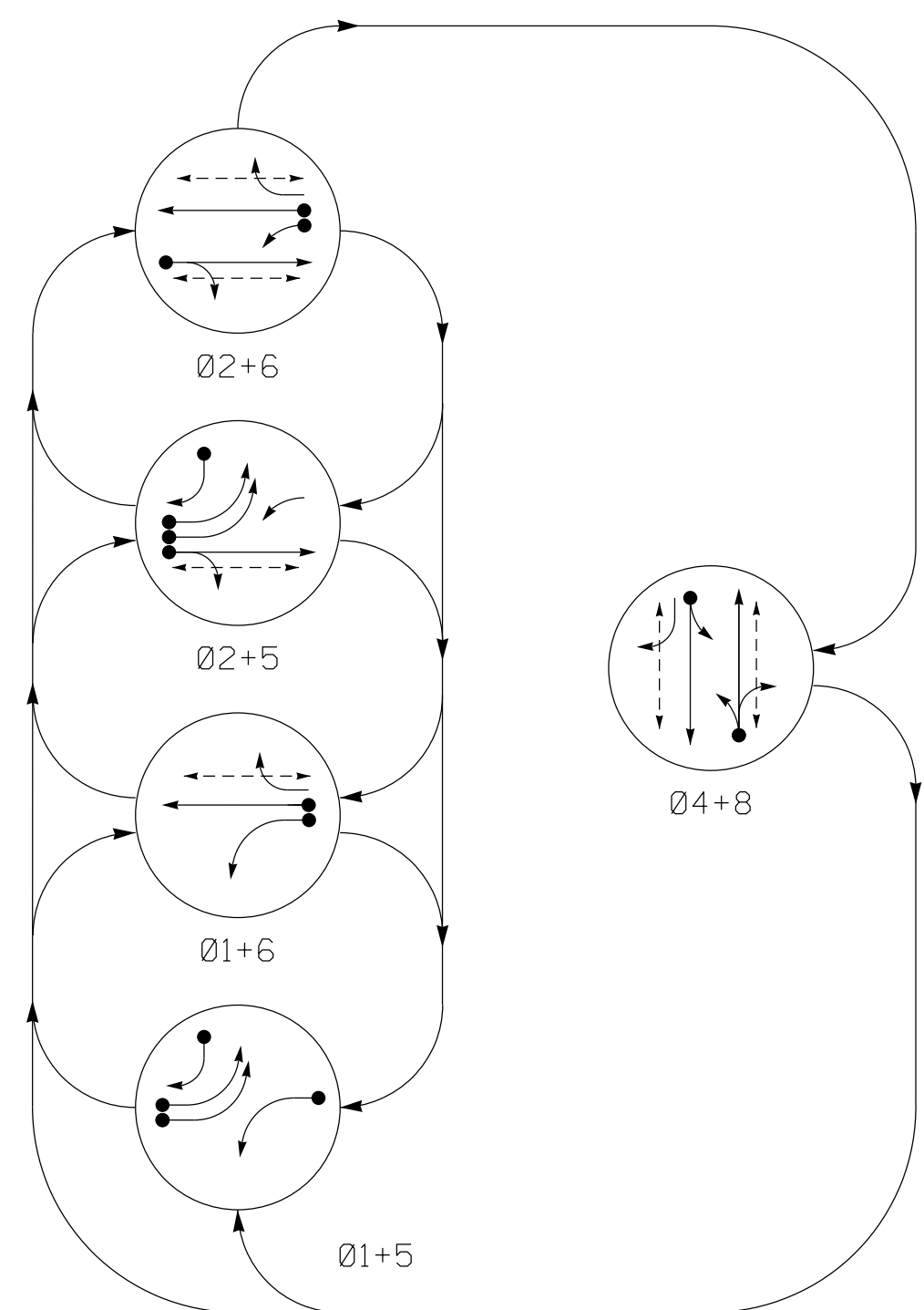


PHASING DIAGRAM



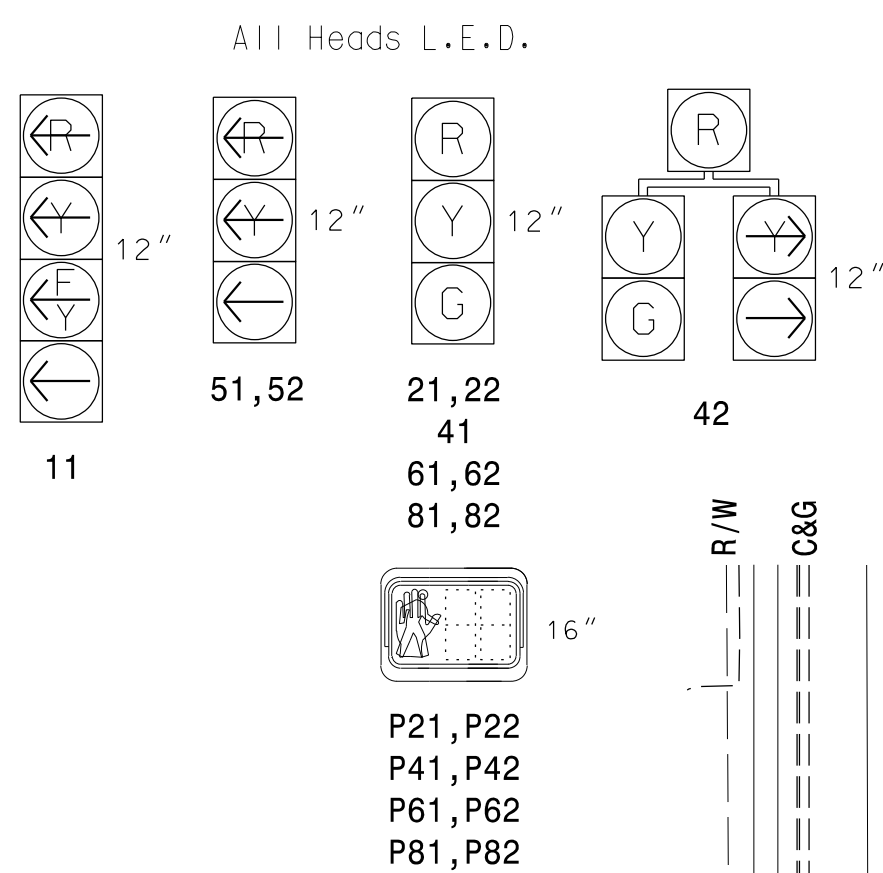
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE				
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	FLASH
11	←	←	←	←	Y
21, 22	R	R	G	G	R
41	R	R	R	R	G
42	R	R	R	R	G
51, 52	←	←	←	←	Y
61, 62	R	G	R	G	R
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	DW	W	DRK
P81, P82	DW	DW	DW	DW	DRK

SIGNAL FACE I.D.



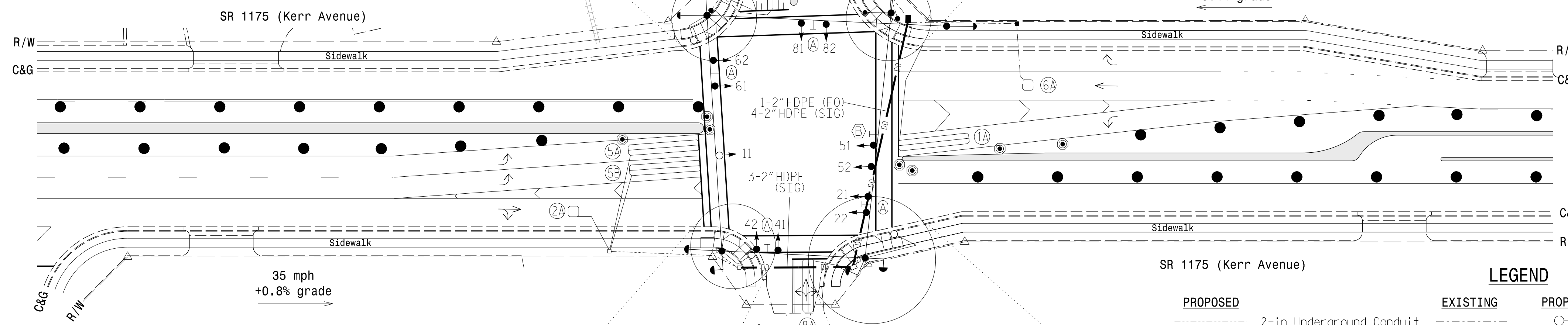
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD		
					PHASE	CALLING	EXTENSION	FULL TIME DELAY			STRETCH TIME	DELAY TIME
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	15	-	Y
2A	6X6	70	4	Y	2	Y	Y	-	-	-	-	-
4A	6X40	0	2-4-2	-	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	-	5	Y	Y	-	-	15	-	-
6A	6X6	70	3	-	6	Y	Y	-	-	-	-	-
8A	6X30	0	2-4-2	Y	8	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.
- Reposition signal heads numbered 21, 22, 41, 42, 51, 52, 61, and 62.
- Reposition street name sign for southbound approach.
- 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	3.0	2.0	2.0	3.0	2.0		
Max Green 1 *	20	60	35	30	60	35		
Yellow Clearance	3.0	3.8	3.8	3.0	3.8	3.2		
Red Clearance	2.9	2.1	2.8	3.4	2.1	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	-	12	28	-	21	30		
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		

\* 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	PROPOSED	EXISTING
2-in Underground Conduit	N/A	Traffic Signal Head	●
Directional Drill	N/A	Sign	—
Directional Arrow	N/A	Pedestrian Signal Head	■
N/A	N/A	Push Button & Sign	•
N/A	N/A	Temporary Pedestrian Post w/ Push Button & Sign	•
N/A	N/A	Type II Signal Pedestal	●
Street Name Sign	Ⓐ	Signal Pole with Guy	●
"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	Ⓑ	Signal Pole with Sidewalk Guy	●
Construction Zone	■	Inductive Loop Detector	□
Construction Zone Drums	●	Controller & Cabinet	□
Construction Zone Cones	▲	Junction Box	□
Construction Barricade	▨	Oversize Junction Box	■

Signal Upgrade - Temporary Signal 3 (TMP Phase IV)

Prepared for the Offices of:

**SR 1175 (Kerr Avenue) at Cinema Drive/ Shopping Center Driveway**

Division 03 New Hanover County Wilmington

PLAN DATE: June 2014 REVIEWED BY: LM MOON

PREPARED BY: IW BERDEAU REVIEWED BY: MB TOTH

REVISIONS: INIT. DATE

750 N. Greenfield Pkwy, Garner, NC 27529 SCALE 1"=40'

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

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH 025892

DocuSigned by: Melissa B. Toth 12/19/2014

SIG. INVENTORY NO. 03-108213