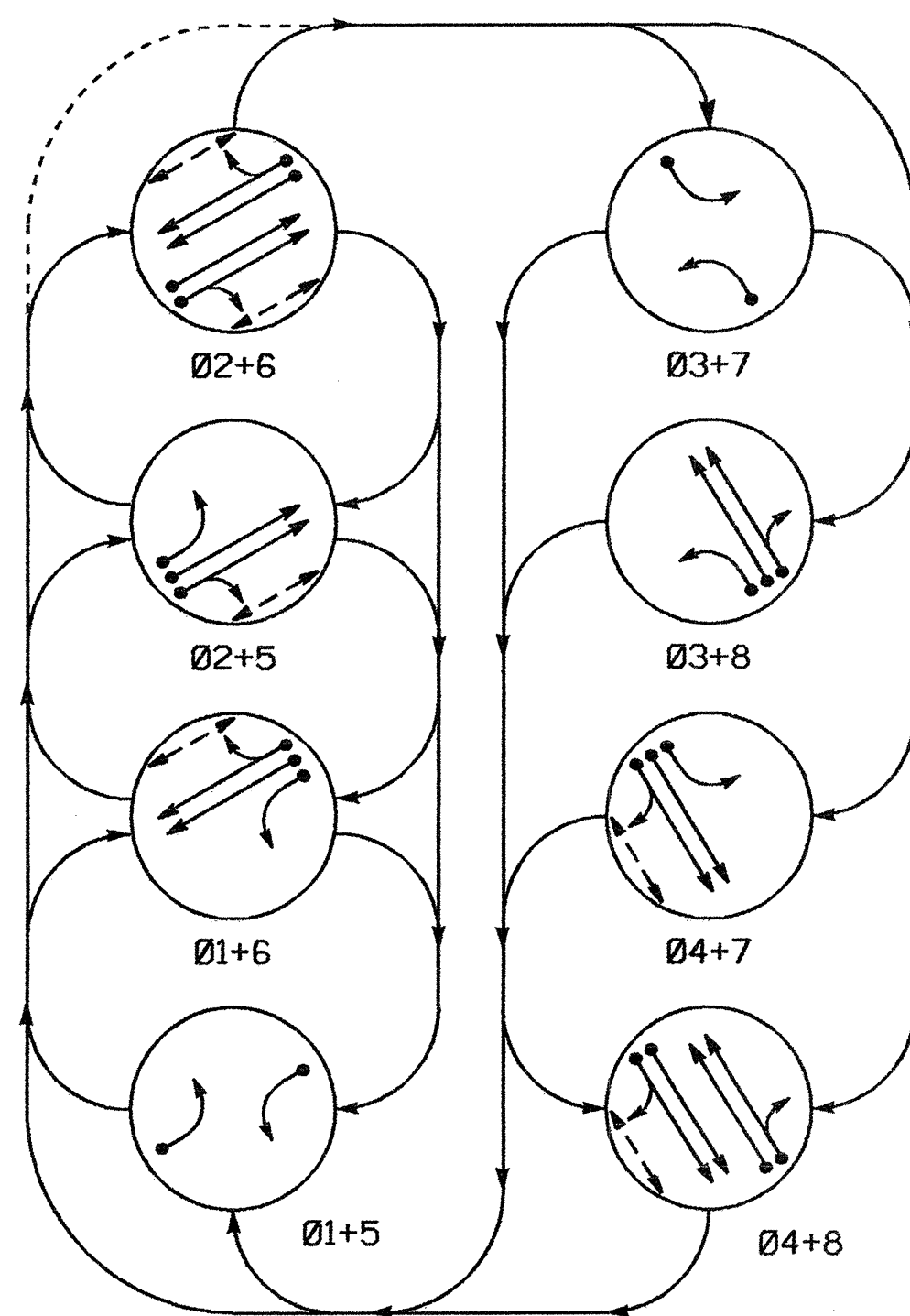


PHASING DIAGRAM



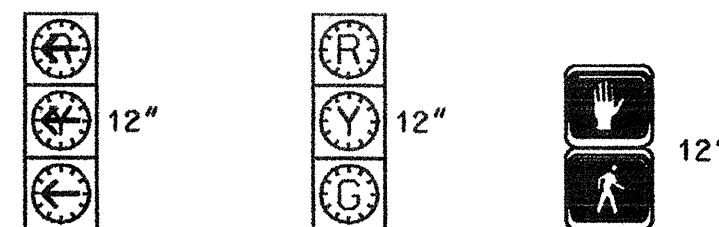
**PHASING DIAGRAM DETECTION LEGEND**

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

SIGNAL FACE	PHASE							
	Ø 1 + 5	Ø 2 + 5	Ø 2 + 6	Ø 3 + 7	Ø 3 + 8	Ø 3 + 9	Ø 4 + 7	Ø 4 + 8
11	←	←	←	←	←	←	←	←
21,22	R	R	G	G	R	R	R	Y
31	←	←	←	←	←	←	←	←
41,42	R	R	R	R	R	G	G	R
51	←	←	←	←	←	←	←	←
61,62	R	G	R	G	R	R	R	Y
71	←	←	←	←	←	←	←	←
81,82	R	R	R	R	G	R	G	R
P21,P22	DW	DW	W	W	DW	DW	DW	DRK
P41,P42	DW	DW	DW	DW	DW	W	W	DRK
P61,P62	DW	W	DW	W	DW	DW	DW	DRK

SIGNAL FACE I.D.

Denotes L.E.D.



11	21,22	P21,P22
31	41,42	P41,P42
51	61,62	P61,P62
71	81,82	

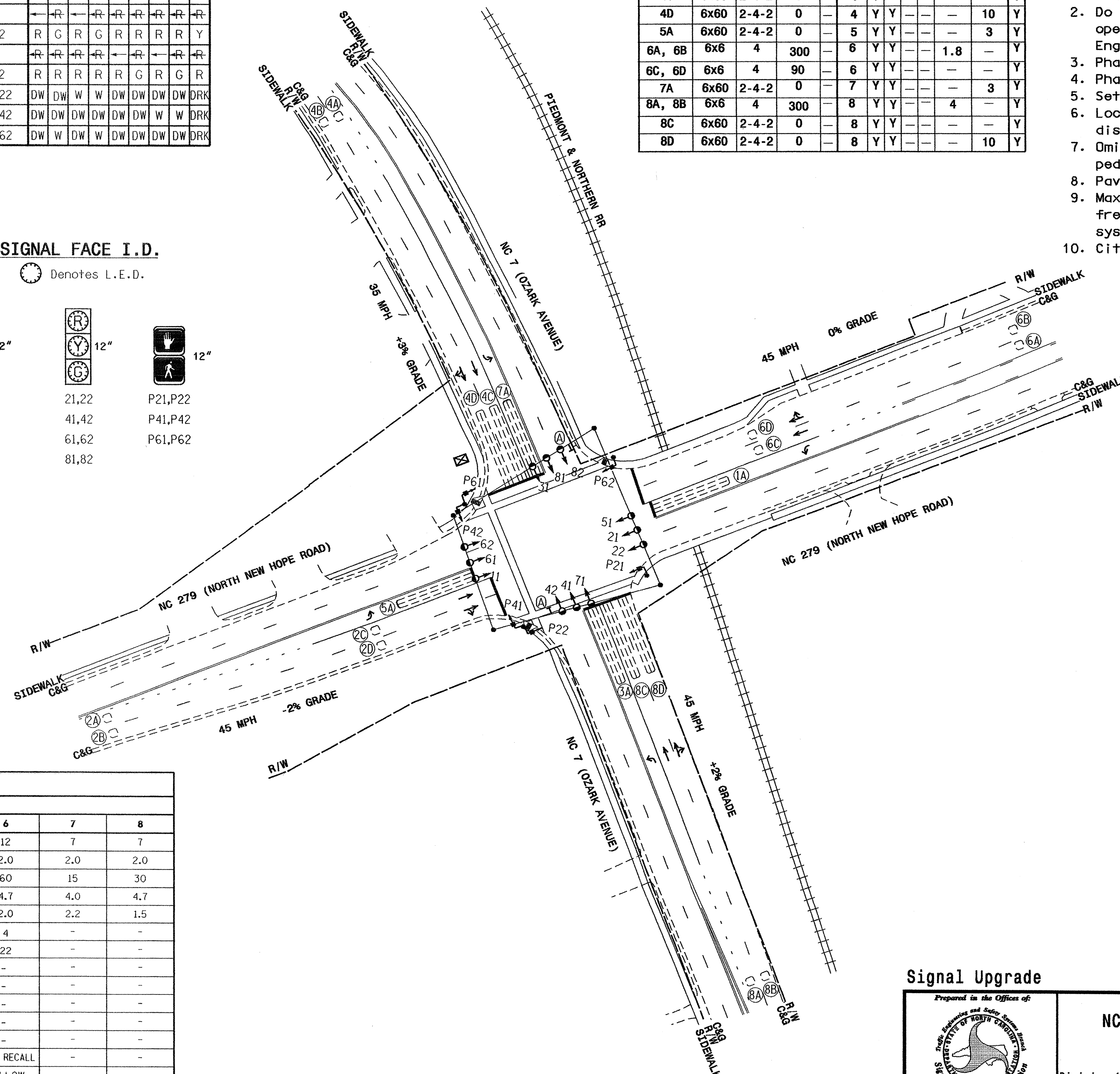
2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	DETECTOR PROGRAMMING						NEW CARD
					PHASE	CALLING	EXTENSION	FULL TIME DELAY SYSTEM LOOP	STRETCH TIME	DELAY TIME	
1A	6x60	2-4-2	0	-	1	Y	Y	-	-	3	Y
2A, 2B	6x6	4	300	-	2	Y	Y	-	1.8	-	Y
2C, 2D	6x6	4	90	-	2	Y	Y	-	-	-	Y
3A	6x60	2-4-2	0	-	3	Y	Y	-	-	3	Y
4A, 4B	6x6	4	300	-	4	Y	Y	-	4	-	Y
4C	6x60	2-4-2	0	-	4	Y	Y	-	-	-	Y
4D	6x60	2-4-2	0	-	4	Y	Y	-	-	10	Y
5A	6x60	2-4-2	0	-	5	Y	Y	-	-	3	Y
6A, 6B	6x6	4	300	-	6	Y	Y	-	1.8	-	Y
6C, 6D	6x6	4	90	-	6	Y	Y	-	-	-	Y
7A	6x60	2-4-2	0	-	7	Y	Y	-	-	3	Y
8A, 8B	6x6	4	300	-	8	Y	Y	-	4	-	Y
8C	6x60	2-4-2	0	-	8	Y	Y	-	-	-	Y
8D	6x60	2-4-2	0	-	8	Y	Y	-	-	10	Y

**8 Phase Fully Actuated**  
(Gastonia City System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 or phase 5 may be lagged.
- Phase 3 or phase 7 may be lagged.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- City system data: Controller Asset #0053.



LEGEND

PROPOSED	EXISTING
	N/A
N/A	

2070L TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1 *	7	12	7	7	7	12	7	7
Extension 1 *	1.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0
Max Green 1 *	15	60	15	30	15	60	15	30
Yellow Clearance	4.0	4.7	4.0	4.7	4.0	4.7	4.0	4.7
Red Clearance	2.9	2.0	2.2	1.5	2.7	2.0	2.2	1.5
Walk 1 *	-	4	-	4	-	4	-	-
Don't Walk 1	-	18	-	24	-	22	-	-
Seconds Per Actuation *	-	-	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-	-
Recall Mode	-	SOFT RECALL	-	-	-	SOFT 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.

Signal Upgrade

Prepared in the Office of:  
  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 Planning and Geometric Division  
 122 N. McDowell St., Raleigh, NC 27603

**NC 279 (New Hope Road) at NC 7 (Ozark Avenue)**  
 Division 12 Gaston County Gastonia

PLAN DATE: November 2004 REVISIONS: [ ] INIT. DATE: [ ]  
 PREPARED BY: C. Pierce REVIEWED BY: D. Y. Ishak

SCALE: 1"=50'

SIGNATURE: [ ] DATE: [ ]  
 SEAL: [ ]  
 SIG. INVENTORY NO.: 12-0053