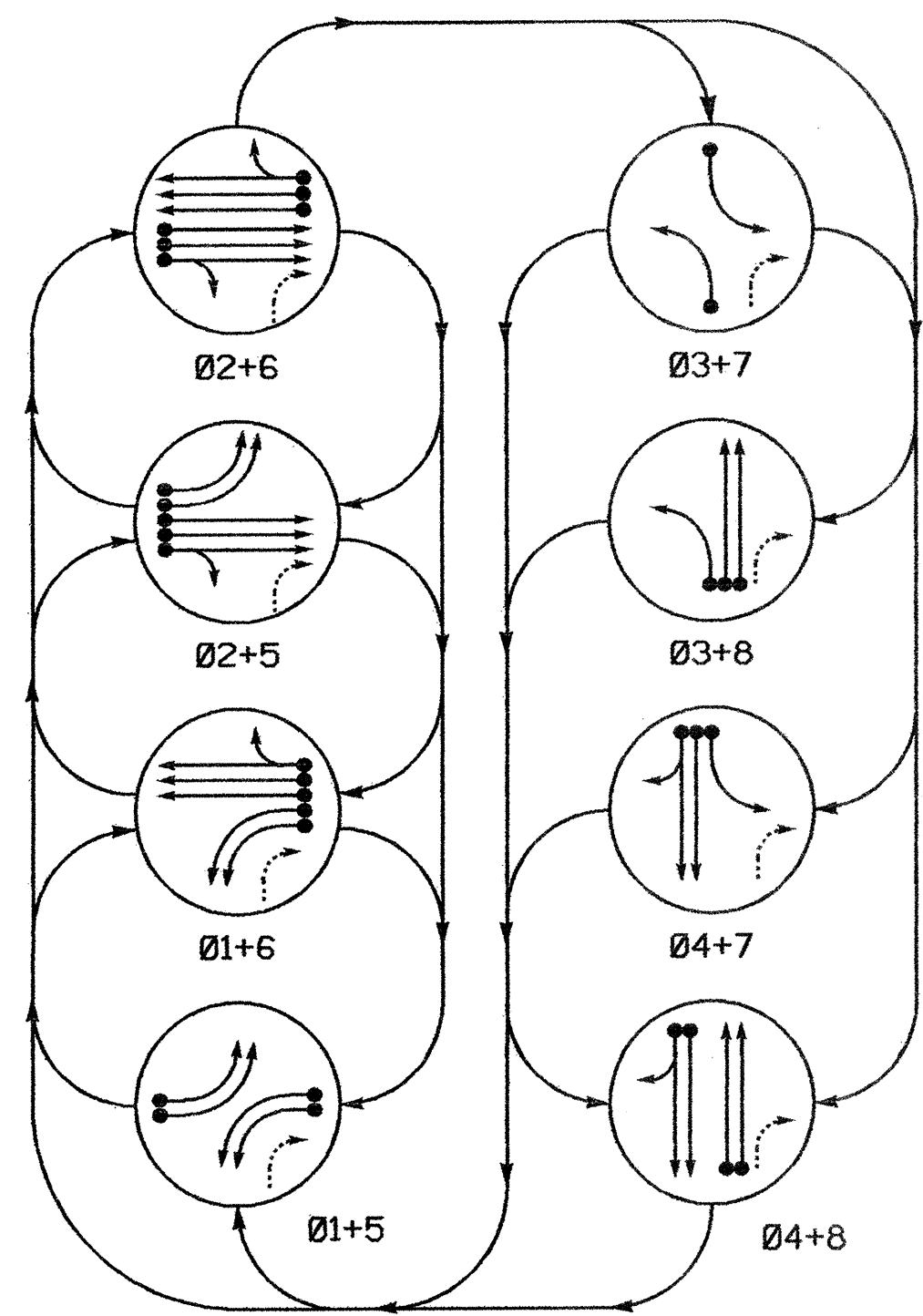


PHASING DIAGRAM

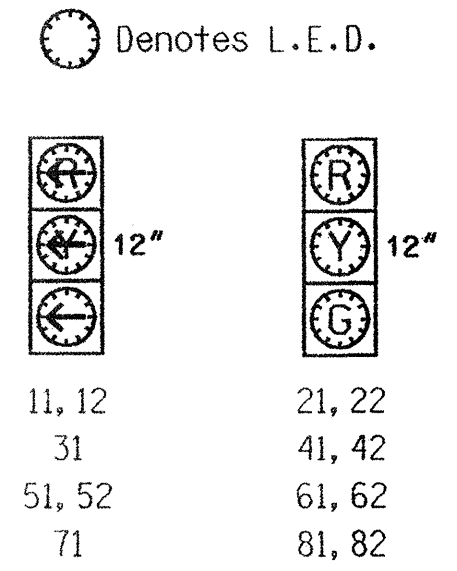


PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE							
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø3+7	Ø3+8	Ø4+7	Ø4+8
11, 12	←	←	←	←	←	←	←	←
21, 22	R	R	G	G	R	R	R	R
31	←	←	←	←	←	←	←	←
41, 42	R	R	R	R	R	R	G	G
51, 52	←	←	←	←	←	←	←	←
61, 62	R	G	R	G	R	R	R	R
71	←	←	←	←	←	←	←	←
81, 82	R	R	R	R	R	G	R	G

SIGNAL FACE I.D.

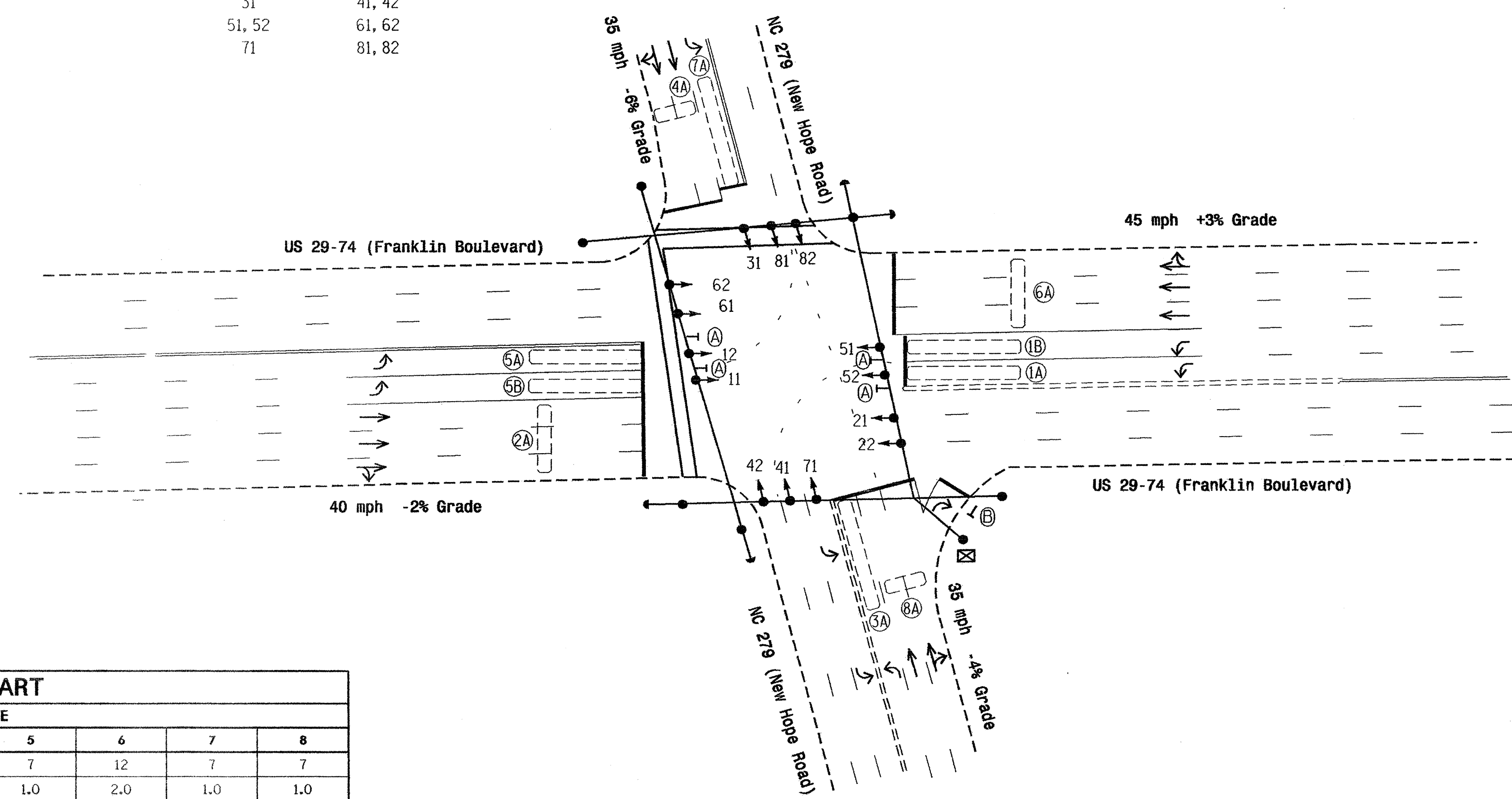


2070L LOOP & DETECTOR INSTALLATION											
INDUCTIVE LOOPS				DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	PHASE	CALLING	EXTENSION FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
1A	6x60	Existing	Existing	—	1	Y	Y	—	—	—	Y
1B	6x60	Existing	Existing	—	1	Y	Y	—	—	—	Y
2A	Existing	Existing	Existing	—	2	Y	Y	—	—	—	Y
3A	6x60	Existing	Existing	—	3	Y	Y	—	—	—	Y
4A	Existing	Existing	Existing	—	4	Y	Y	—	—	—	Y
5A	6x60	Existing	Existing	—	5	Y	Y	—	—	—	Y
5B	6x60	Existing	Existing	—	5	Y	Y	—	—	—	Y
6A	Existing	Existing	Existing	—	6	Y	Y	—	—	—	Y
7A	6x60	Existing	Existing	—	7	Y	Y	—	—	—	Y
8A	Existing	Existing	Existing	—	8	Y	Y	—	—	—	Y

8 Phase Fully Actuated (Gastonia City System)

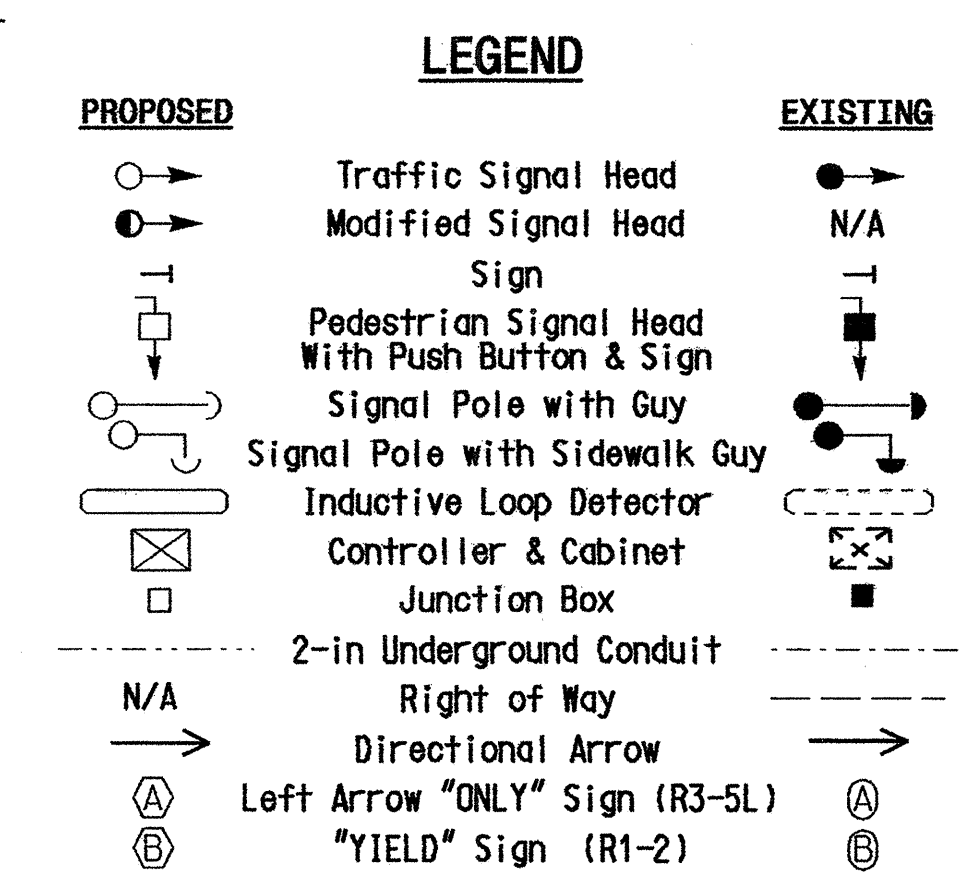
NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 or phase 5 may be lagged.
4. Phase 3 or phase 7 may be lagged.
5. Set all detector units to presence mode.
6. Locate new cabinet so as not to obstruct vehicles turning right on red.
7. Pavement markings are existing.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
9. City system data: Controller Asset #: 0050.



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 *	2.0	2.0	1.0	1.0	1.0	2.0	1.0	1.0
Max Green 1 *	20	60	20	30	20	60	20	30
Yellow Clearance	4.0	4.7	4.0	4.0	4.0	4.7	4.0	4.0
Red Clearance	2.0	2.0	3.0	3.2	2.5	2.0	3.8	3.2
Walk 1 *	-	-	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-	-	-
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	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

122 N. McDowell St., Raleigh, NC 27603

US 29-74 (Franklin Boulevard) at NC 279 (New Hope Road)

Division 12 Gaston County Gastonia

PLAN DATE: April 2004 REVIEWED BY:

PREPARED BY: Hambright/Porter REVIEWED BY:

REVISIONS: _____ INIT: _____ DATE: _____

SEAL

10 DECEMBER 04

SIGNATURE: _____ DATE: _____

STG. INVENTORY NO. 12-0050