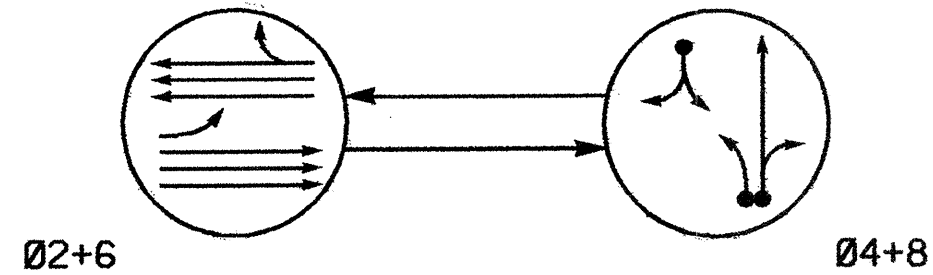


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

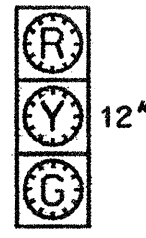
- DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- ←--- UNSIGNALIZED MOVEMENT
- ←---→ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø2+6	Ø4+8	F/H/Ø8+8
21, 22, 23	G	R	Y
41, 42	R	G	R
61, 62	G	R	Y
81, 82	R	G	R

SIGNAL FACE I.D.

○ Denotes L.E.D.



21, 22, 23
41, 42
61, 62
81, 82

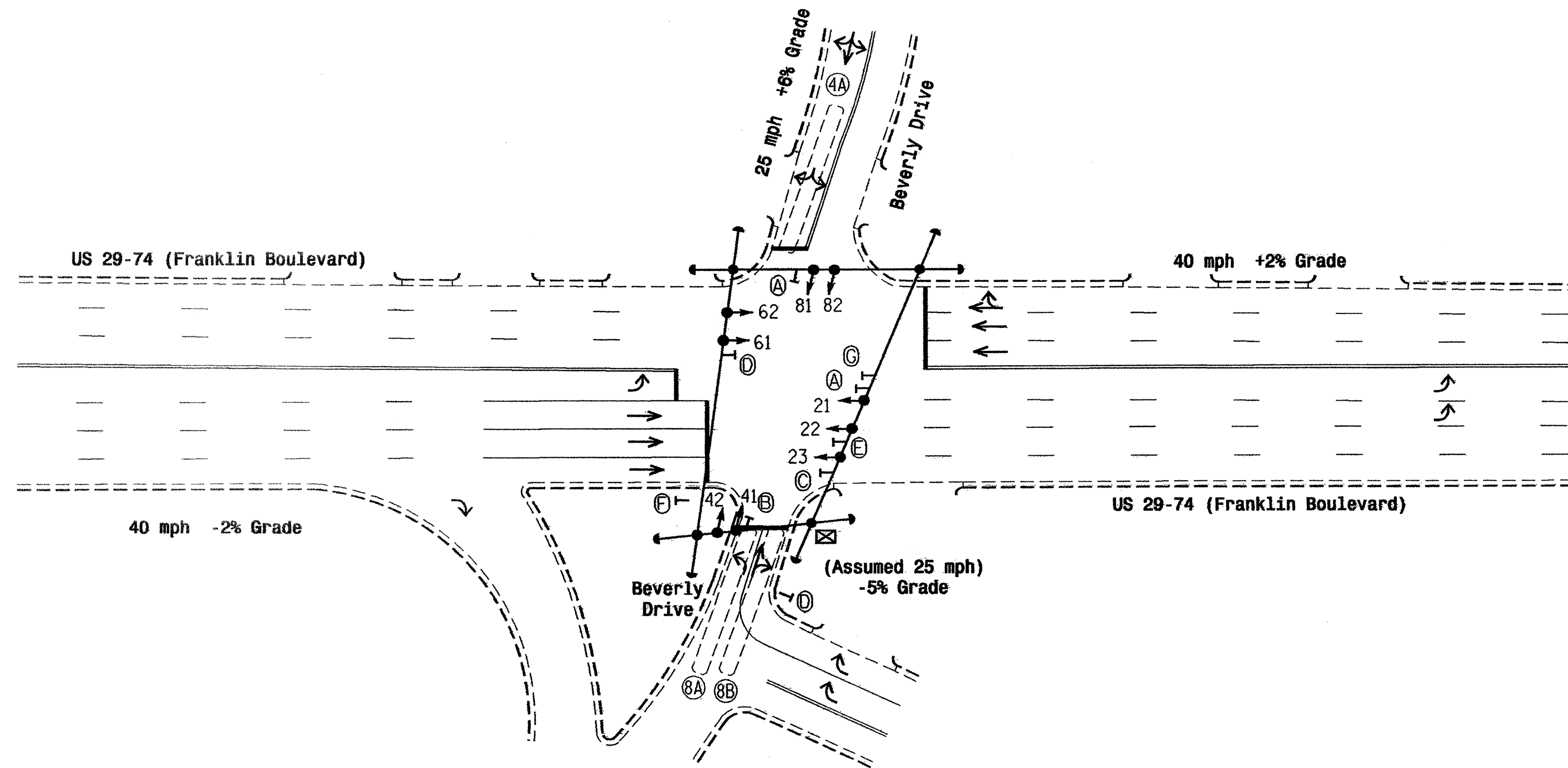
2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	DETECTOR PROGRAMMING							
				PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	NEW CARD	
4A	Existing	Existing	Existing	-	4	Y	Y	-	-	10	Y
8A	Existing	Existing	Existing	-	8	Y	Y	-	-	-	Y
8B	Existing	Existing	Existing	-	8	Y	Y	-	-	10	Y

2 Phase Semi-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. Set all detector units to presence mode.
4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. Pavement markings are existing.
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
7. City system data: Controller Asset #0049



LEGEND

- | PROPOSED | | EXISTING |
|----------|------------------------------------------|----------|
| ○ | Traffic Signal Head | ● |
| ○ | Modified Signal Head Sign | N/A |
| ⊥ | Pedestrian Signal Head | ⊥ |
| ⊥ | With Push Button & Sign | ⊥ |
| ○ | Signal Pole with Guy | ○ |
| ○ | Signal Pole with Sidewalk Guy | ○ |
| □ | Inductive Loop Detector | □ |
| □ | Controller & Cabinet | □ |
| □ | Junction Box | □ |
| --- | 2-in Underground Conduit | --- |
| N/A | Directional Arrow | → |
| → | Pavement Marking Arrow | → |
| (A) | Left Arrow "ONLY" Sign (R3-5L) | (A) |
| (B) | Dual Turn Arrows Sign (R3-18) | (B) |
| (C) | Through Arrow "ONLY" Sign (R3-5A) | (C) |
| (D) | No Left Turn Sign (R3-2) | (D) |
| (E) | "DO NOT BLOCK INTERSECTION" Sign (R10-7) | (E) |
| (F) | No Right Turn Sign (R3-1) | (F) |
| (G) | "YIELD" Sign (R1-2) | (G) |

2070L TIMING CHART

FEATURE	PHASE			
	2	4	6	8
Min Green 1*	12	7	12	7
Extension 1*	0.0	2.0	0.0	1.0
Max Green 1*	60	30	60	30
Yellow Clearance	4.0	4.0	4.0	4.0
Red Clearance	2.0	2.0	2.0	2.0
Walk 1*	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	MAX RECALL	-	MAX RECALL	-
Vehicle Call Memory	-	-	-	-
Dual Entry	-	ON	-	ON
Simultaneous Gap	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

US 29-74 (Franklin Boulevard) at Beverly Drive

Division 12 Gaston County Gastonia

PLAN DATE: April 2004 REVIEWED BY: D.Y. Ishak

PREPARED BY: P.J. Porter REVIEWED BY:

122 N. McDowell St., Raleigh, NC 27603

SCALE: 1"=40'

REVISIONS: _____ DATE: _____

SIGNATURE: _____ DATE: _____

SIG. INVENTORY NO. 12-0049