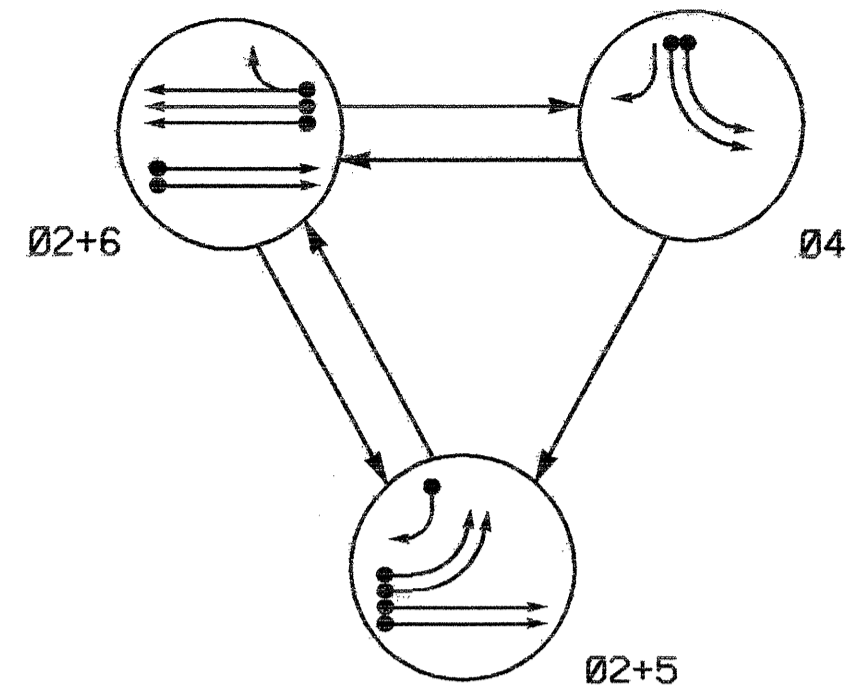


**PHASING DIAGRAM**



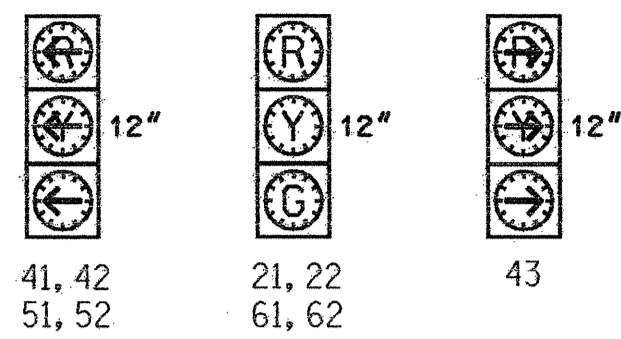
**PHASING DIAGRAM DETECTION LEGEND**

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

SIGNAL FACE	PHASE			
	Ø 2+5	Ø 2+6	Ø 4	FLASH
21, 22	G	G	R	Y
41, 42	R	R	Y	R
43	R	R	R	R
51, 52	R	R	R	R
61, 62	R	G	R	Y

**SIGNAL FACE I.D.**

○ Denotes L.E.D.



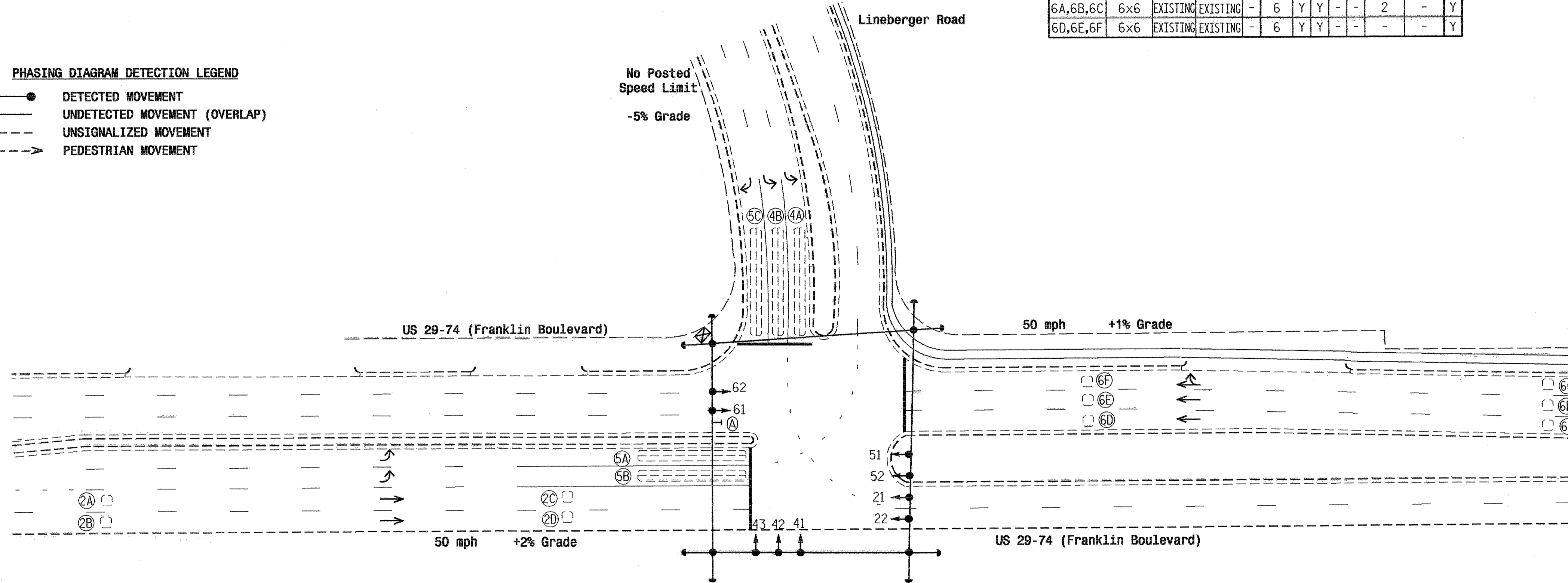
**2070L LOOP & DETECTOR INSTALLATION**

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
2A,2B	6x6	EXISTING	EXISTING	-	2	Y	Y	-	-	2	-	Y
2C,2D	6x6	EXISTING	EXISTING	-	2	Y	Y	-	-	-	-	Y
4A	6x60	EXISTING	EXISTING	-	4	Y	Y	-	-	-	-	Y
4B	6x60	EXISTING	EXISTING	-	4	Y	Y	-	-	-	-	Y
5A	6x60	EXISTING	EXISTING	-	5	Y	Y	-	-	-	-	Y
5B	6x60	EXISTING	EXISTING	-	5	Y	Y	-	-	-	-	Y
5C	6x60	EXISTING	EXISTING	-	5	Y	Y	-	-	-	15	Y
6A,6B,6C	6x6	EXISTING	EXISTING	-	6	Y	Y	-	-	2	-	Y
6D,6E,6F	6x6	EXISTING	EXISTING	-	6	Y	Y	-	-	-	-	Y

**3 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 5 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.
- 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 #: 1562.



2070L TIMING CHART				
FEATURE	PHASE			
	2	4	5	6
Min Green 1*	14	7	7	14
Extension 1*	2.0	1.0	2.0	2.0
Max Green 1*	60	20	15	60
Yellow Clearance	4.7	4.0	4.0	4.7
Red Clearance	1.6	3.2	2.5	1.6
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

\* 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 |
|----------|----------|
|          |          |
|          | N/A      |
|          |          |
|          |          |
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**Signal Upgrade**

<p>Prepared in the Office of:</p> <p>122 N. McDowell St., Raleigh, NC 27603</p>	<p>US 29-74 (Franklin Boulevard) at Lineberger Road</p>		<p>SEAL</p>
	<p>Division 12 Gaston County Gastonia</p> <p>PLAN DATE: November 2004 REVIEWED BY: </p> <p>PREPARED BY: A.B. Hambright REVIEWED BY:</p>	<p>REVISIONS</p>	