

PHASING DIAGRAM

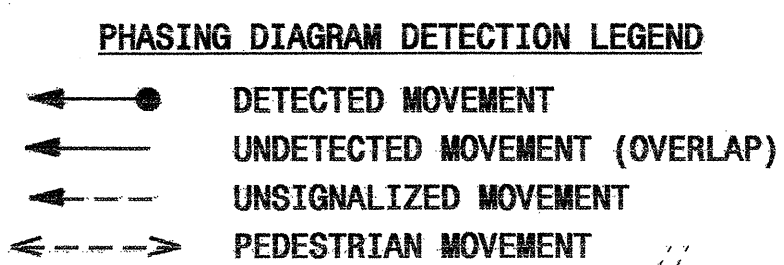
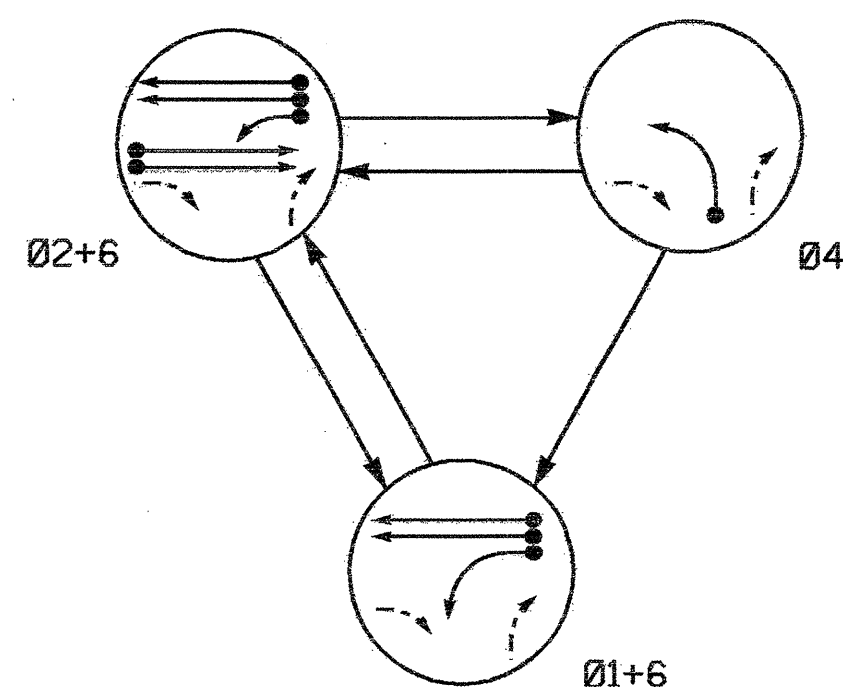
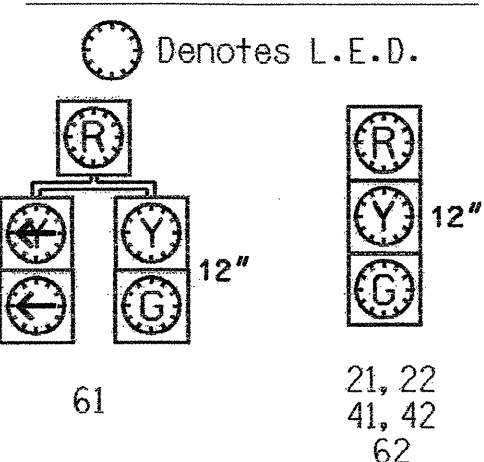


TABLE OF OPERATION

SIGNAL FACE	PHASE			
	Ø 1 + 6	Ø 2 + 6	Ø 4	FLASH
21, 22	R	G	R	Y
41, 42	R	R	G	R
61	G	G	R	Y
62	G	G	R	Y

SIGNAL FACE I.D.



2070L LOOP & DETECTOR INSTALLATION

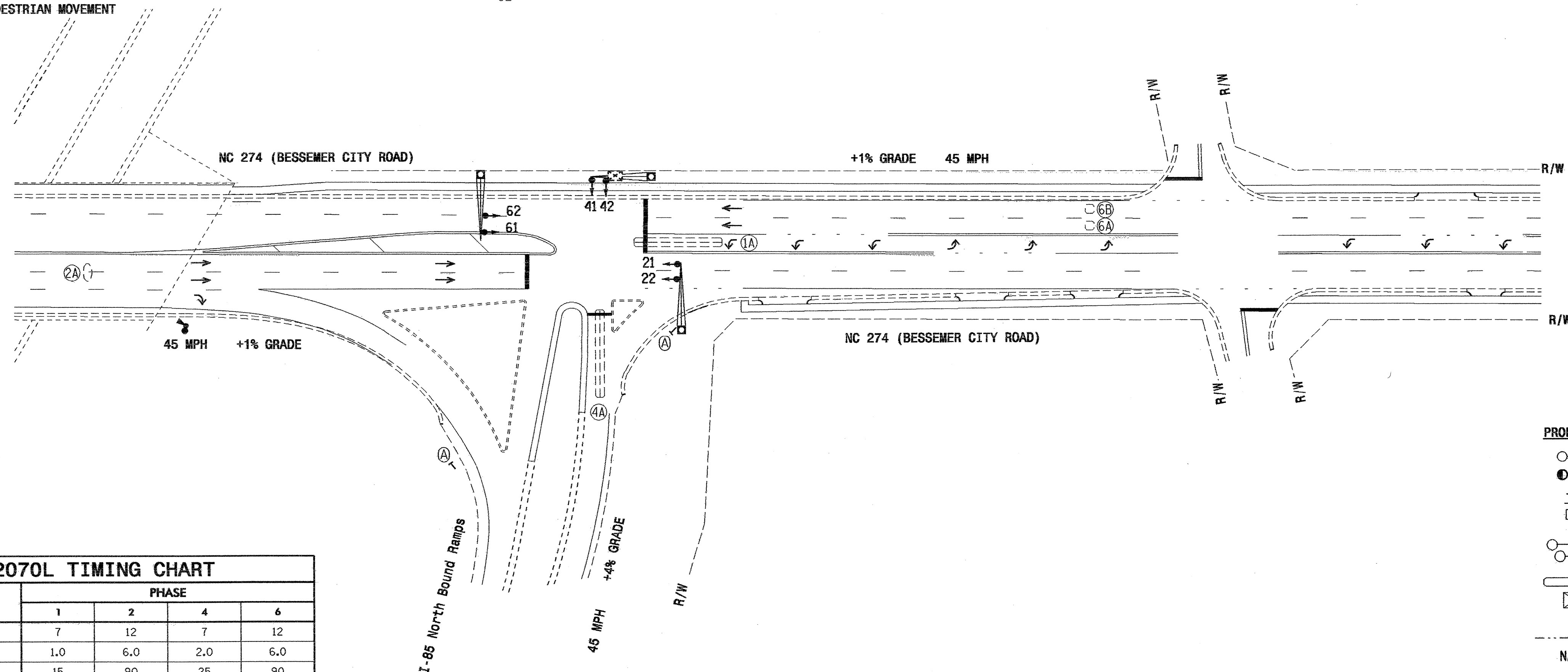
LOOP	INDUCTIVE LOOPS			DETECTOR PROGRAMMING					SYSTEM LOOP	NEW CARD
	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	STRETCH TIME		
1A	EXISTING	EXISTING	EXISTING	-	1	Y	Y	-	15	-
					6	Y	Y	-	3	-
2A*	EXISTING	EXISTING	EXISTING	-	2	Y	Y	-	-	-
4A	EXISTING	EXISTING	EXISTING	-	4	Y	Y	-	10	-
6A, 6B	EXISTING	EXISTING	EXISTING	-	6	Y	Y	-	-	-

\* MICROWAVE

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.
- 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 #: 0928.
- All work on this signal will be done and paid for under TIP Project U-2408. This plan is only to show that this intersection is part of the Gastonia City Signal System and some minor changes to the timing charts.

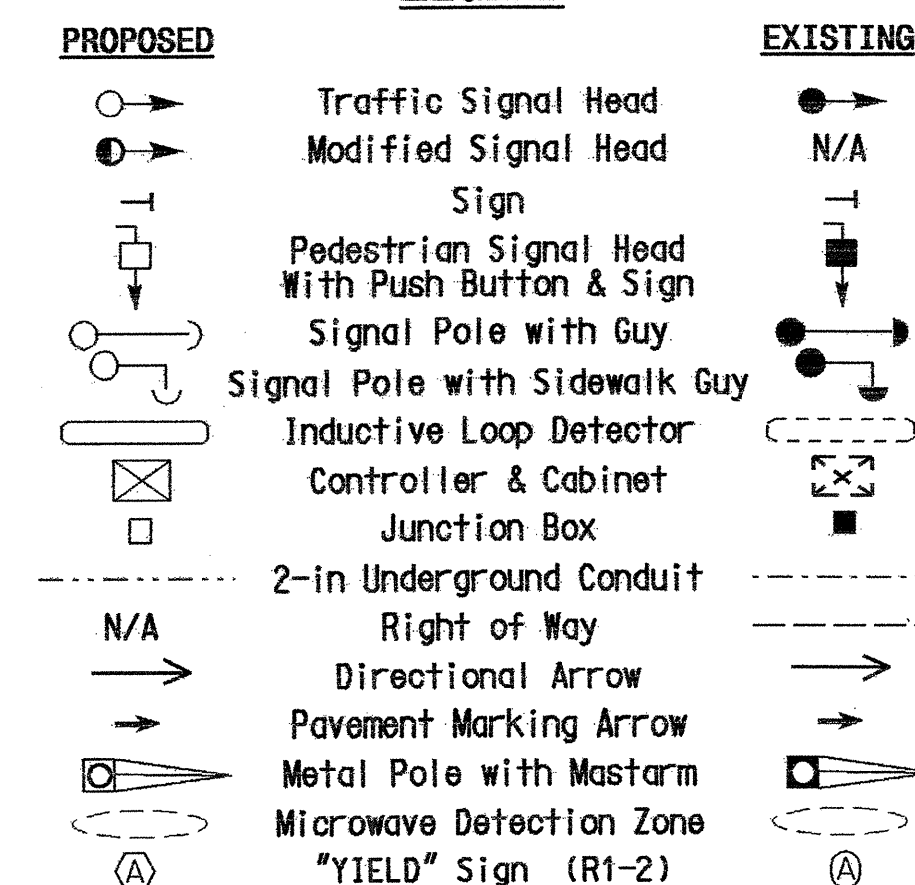


2070L TIMING CHART

FEATURE	PHASE			
	1	2	4	6
Min Green 1*	7	12	7	12
Extension 1*	1.0	6.0	2.0	6.0
Max Green 1*	15	90	25	90
Yellow Clearance	4.0	4.7	4.0	4.7
Red Clearance	2.0	1.1	2.0	1.1
Walk 1*	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation*	-	1.8	-	1.8
Max Variable Initial*	-	34	-	34
Time Before Reduction*	-	15	-	15
Time To Reduce*	-	30	-	30
Minimum Gap	-	3.0	-	3.0
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



Signal Upgrade

Prepared in the Office of:  
**NC 274 (Bessemmer City Road) at I-85 Northbound Ramp & Loop**  
 Division 12 Gaston County Gastonia  
 PLAN DATE: February 2005 REVIEWED BY: D.Y. Ishak  
 PREPARED BY: L. Blount REVIEWED BY:  
 SCALE: 1" = 50'  
 SIGNATURE: DATE: 12-0928