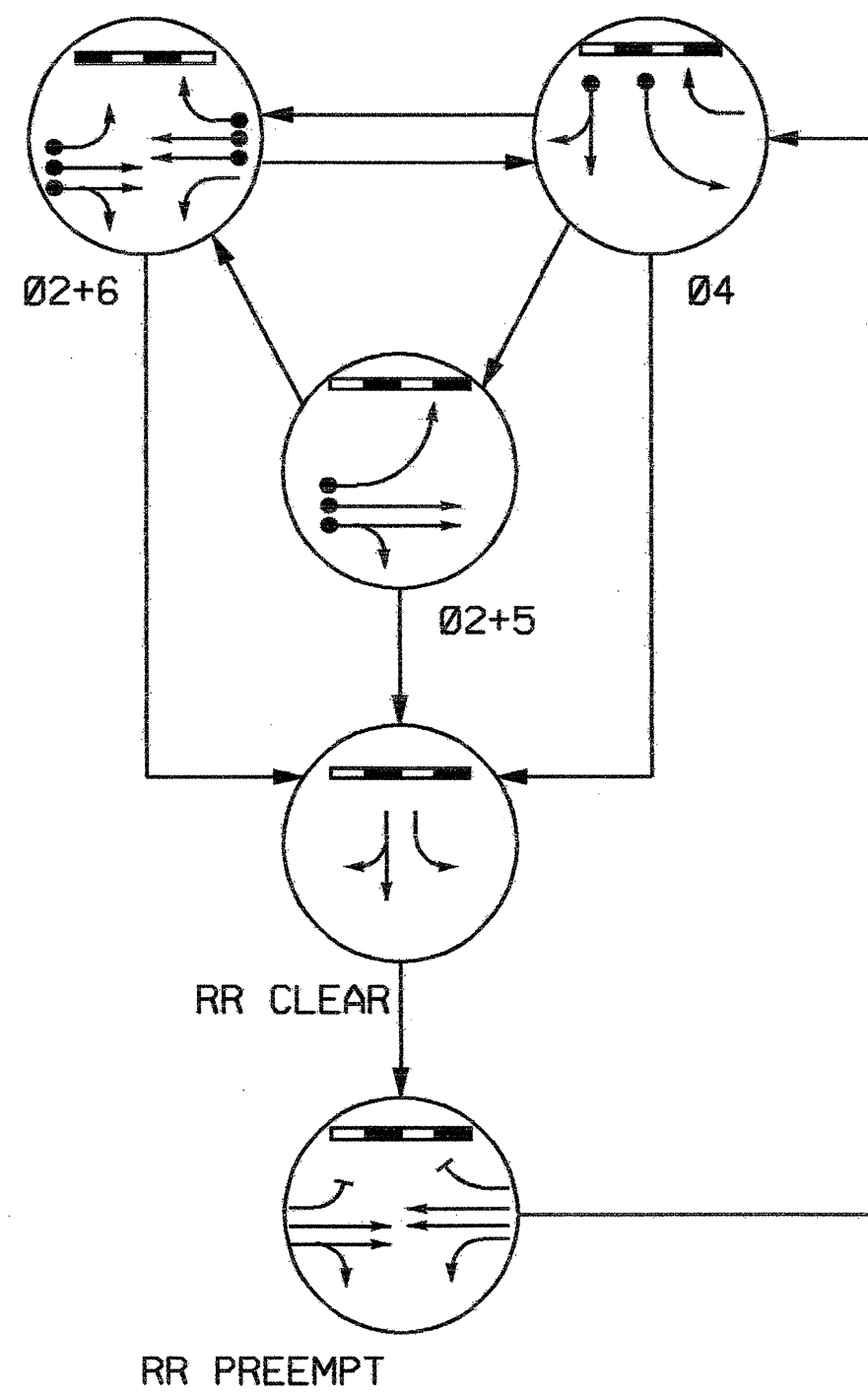
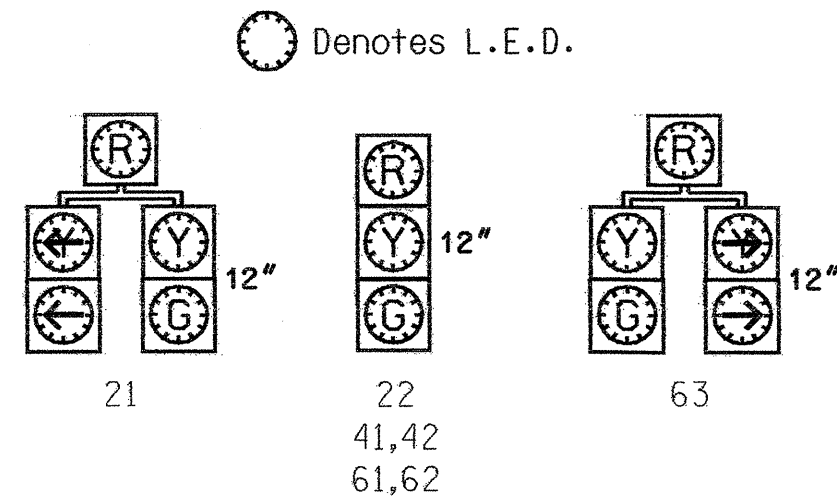


**PHASING DIAGRAM**



SIGNAL FACE	PHASE					
	Ø 2+5	Ø 2+6	Ø 4	RR CLEAR	RR PREEMPT	FLASH
21	G	R	R	G	Y	
22	G	G	R	R	G	Y
41,42	R	R	G	G	R	R
61,62	R	G	R	R	G	Y
63	R	G	R	R	G	Y

**SIGNAL FACE I.D.**



2070L LOOP & DETECTOR INSTALLATION												
INDUCTIVE LOOPS				DETECTOR PROGRAMMING								
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A,2B	EXIST	EXIST	EXIST	-	2	Y	Y	-	1.8	-	-	-
2C,2D	EXIST	EXIST	EXIST	-	2	Y	Y	-	-	-	-	-
4A	EXIST	EXIST	EXIST	-	4	Y	Y	-	-	3	-	-
4B	EXIST	EXIST	EXIST	-	4	Y	Y	-	-	10	-	-
5A	EXIST	EXIST	EXIST	-	5	Y	Y	-	-	15	-	-
6A,6B	EXIST	EXIST	EXIST	-	2	Y	Y	-	-	-	-	-
6C,6D	EXIST	EXIST	EXIST	-	6	Y	Y	-	1.8	-	-	-

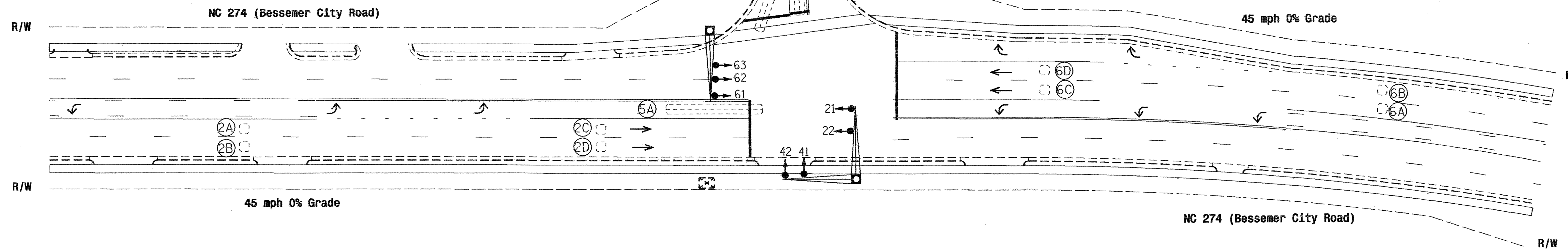
**3 Phase Fully Actuated Gastonia City System**

**NOTES**

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- This location contains railroad preemption phasing. Do not program signal for late night flashing operation.
- Omit phase 5 during phase 6 on.
- Program controller to clear from phase 2+6 to phase 2+5 by progressing through phase 4 (see Electrical Details).
- Set all detector units to presence mode.
- 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 #0155.
- 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 Chart.

**PHASING DIAGRAM DETECTION LEGEND**

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



**2070L TIMING CHART**

FEATURE	PHASE			
	2	4	5	6
Min Green 1*	12	7	7	12
Extension 1*	2.0	2.0	1.0	2.0
Max Green 1*	100	30	20	100
Yellow Clearance	4.7	4.0	4.0	4.7
Red Clearance	1.7	2.4	1.7	1.7
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.

**2070 RAIL PREEMPTION**

Interval 1 - Track Clearance Green	30
Interval 1 - Track Clearance Yellow	4.0
Interval 1 - Track Clearance Red	2.2
Interval 2 - Dwell Green	255
Interval 2 - Dwell Yellow	0.0*
Interval 2 - Dwell Red	0.0*
Interval 5 - Exit Green	1
Interval 5 - Yellow	0.0
Interval 5 - Red	0.0
Delay Time	0
Min Green Before Pre	1
Ped Clear Before Pre	-
Yellow Clear Before Pre	0.0*
Red Clear Before Pre	0.0*
Dwell Min Time	7
Ped Clear Through Yellow	N

\* Time defaults to time used for phase during normal operation.

**LEGEND**

- |  |  |
|--|--|
| <b>PROPOSED</b>                                    | <b>EXISTING</b>                                    |
| ○ → Traffic Signal Head                            | ● → Traffic Signal Head                            |
| ● → Modified Signal Head                           | N/A  |
| □ → Pedestrian Signal Head With Push Button & Sign | □ → Pedestrian Signal Head With Push Button & Sign |
| □ → Signal Pole with Guy                           | □ → Signal Pole with Guy                           |
| □ → Signal Pole with Sidewalk Guy                  | □ → Signal Pole with Sidewalk Guy                  |
| □ → Inductive Loop Detector                        | □ → Inductive Loop Detector                        |
| □ → Controller & Cabinet                           | □ → Controller & Cabinet                           |
| □ → Junction Box                                   | □ → Junction Box                                   |
| □ → 2-in Underground Conduit                       | □ → 2-in Underground Conduit                       |
| N/A → Right of Way                                 | — → Right of Way                                   |
| → → Directional Arrow                              | → → Directional Arrow                              |
| → → Pavement Marking Arrow                         | → → Pavement Marking Arrow                         |
| → → Metal Pole with Mastarm                        | → → Metal Pole with Mastarm                        |
| N/A → Railroad Gate and Flasher                    | → → Railroad Gate and Flasher                      |
| N/A → Railroad Tracks                              | — → Railroad Tracks                                |

**Signal Upgrade**

	<b>NC 274 (Bessemer City Road) at SR 1338 (Northwest Blvd.)</b>		
	Division 12 Gaston County Gastonia PLAN DATE: February 2005 PREPARED BY: K. Maldonado REVISIONS:	REVIEWED BY: D. Y. Ishak REVIEWED BY:	
SCALE: 1"=40' 0 40		SIGNATURE: DATE:	
12-MAY-2005 08:28 w:\mpe\lbr-un\mpe\kgr\pupsk1p\proj\act\sig-u-4736\sig-u-4736\20155\sig-u-4736\20050314.dgn		SIG. INVENTORY NO. 12-0155	