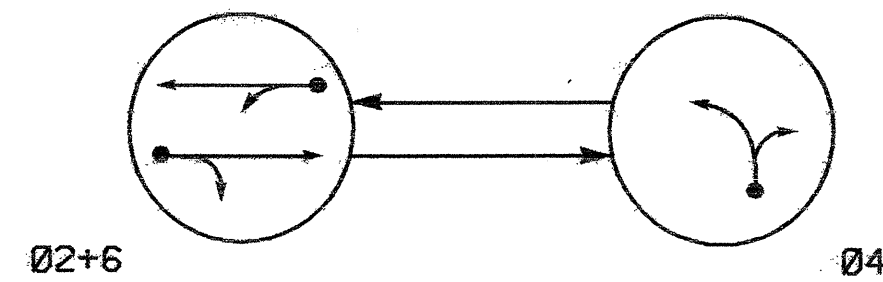


**PHASING DIAGRAM**



**PHASING DIAGRAM DETECTION LEGEND**

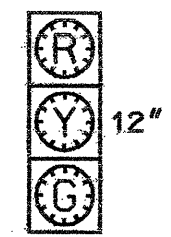
- ←● DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ←--- PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE		
	Ø2+6	Ø4	FLASH
21,22	G	R	Y
41,42	R	G	R
61,62	G	R	Y

**SIGNAL FACE I.D.**

○ Denotes L.E.D.

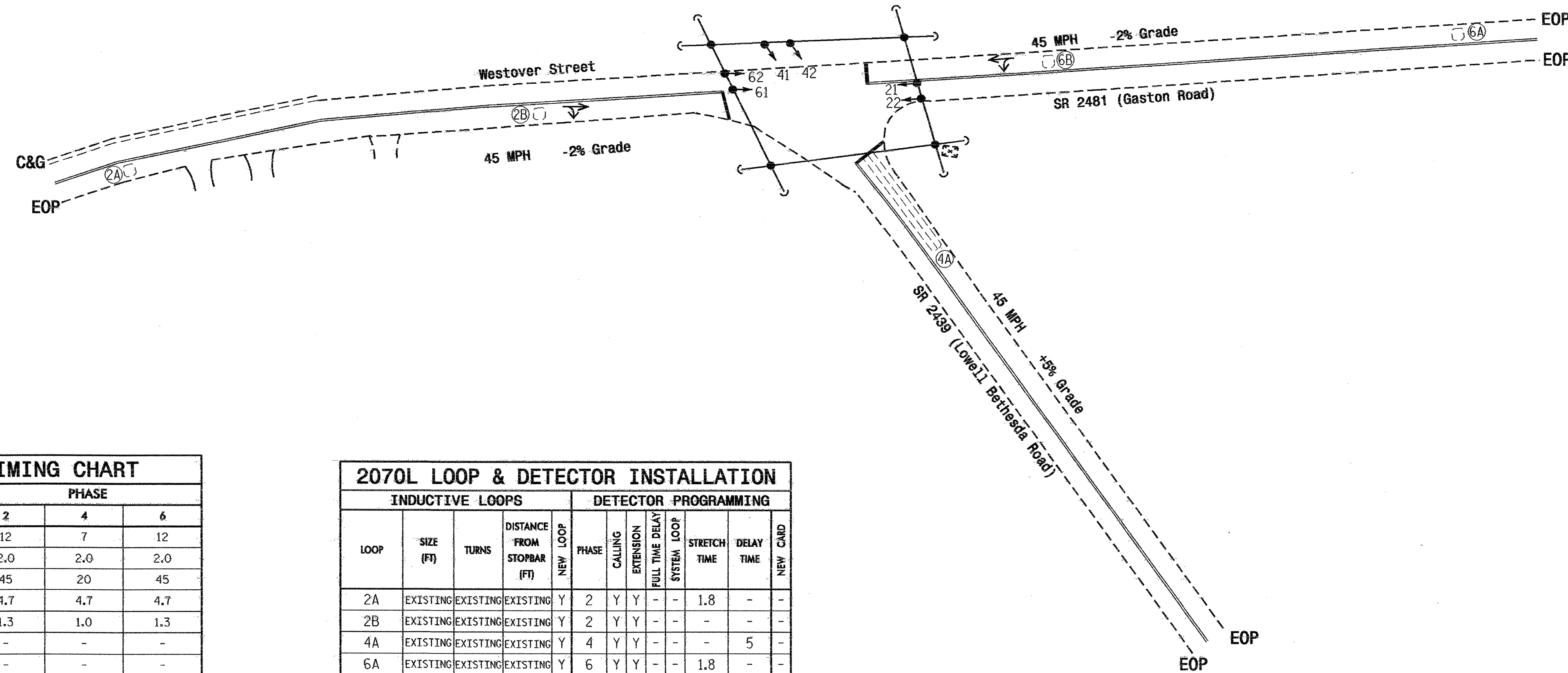


21, 22  
41, 42  
61, 62

**2 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 #: 1712.



**2070L TIMING CHART**

FEATURE	PHASE		
	2	4	6
Min Green 1*	12	7	12
Extension 1*	2.0	2.0	2.0
Max Green 1*	45	20	45
Yellow Clearance	4.7	4.7	4.7
Red Clearance	1.3	1.0	1.3
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

\* 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.

**2070L LOOP & DETECTOR INSTALLATION**

LOOP	INDUCTIVE LOOPS			DETECTOR PROGRAMMING								
	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
2A	EXISTING	EXISTING	EXISTING	Y	2	Y	Y	-	-	1.8	-	-
2B	EXISTING	EXISTING	EXISTING	Y	2	Y	Y	-	-	-	-	-
4A	EXISTING	EXISTING	EXISTING	Y	4	Y	Y	-	-	-	5	-
6A	EXISTING	EXISTING	EXISTING	Y	6	Y	Y	-	-	1.8	-	-
6B	EXISTING	EXISTING	EXISTING	Y	6	Y	Y	-	-	-	-	-

**LEGEND**

- |  |                                   |  |                                   |
|--|-----------------------------------|--|-----------------------------------|
|  | PROPOSED Traffic Signal Head      |  | EXISTING Traffic Signal Head      |
|  | PROPOSED Modified Signal Head     |  | EXISTING Modified Signal Head     |
|  | PROPOSED Pedestrian Signal Head   |  | EXISTING Pedestrian Signal Head   |
|  | PROPOSED Signal Pole              |  | EXISTING Signal Pole              |
|  | PROPOSED Inductive Loop Detector  |  | EXISTING Inductive Loop Detector  |
|  | PROPOSED Controller & Cabinet     |  | EXISTING Controller & Cabinet     |
|  | PROPOSED Junction Box             |  | EXISTING Junction Box             |
|  | PROPOSED 2-in Underground Conduit |  | EXISTING 2-in Underground Conduit |
|  | PROPOSED Right of Way             |  | EXISTING Right of Way             |
|  | PROPOSED Directional Arrow        |  | EXISTING Directional Arrow        |
|  | PROPOSED Pavement Marking Arrow   |  | EXISTING Pavement Marking Arrow   |

**SIGNAL UPGRADE**

	<p>SR 2481 (Gaston Road) / Westover Street at SR 2439 (Lowell Bethesda Road) near Gastonia</p>	
	<p>Division 12 Gaston County</p>	<p>Division 12 Gaston County</p>
<p>PLAN DATE: February 2005</p>	<p>REVIEWED BY: D.Y. Ishak</p>	<p>PREPARED BY: L. Blount</p>
<p>REVISIONS</p>	<p>INIT.</p>	<p>DATE</p>
<p>SCALE 1" = 40'</p>	<p>SIGNATURE</p>	<p>DATE</p>
<p>122 N. McDowell St., Raleigh, NC 27603</p>	<p>SIG. INVENTORY NO. 12-1712</p>	<p>DATE</p>