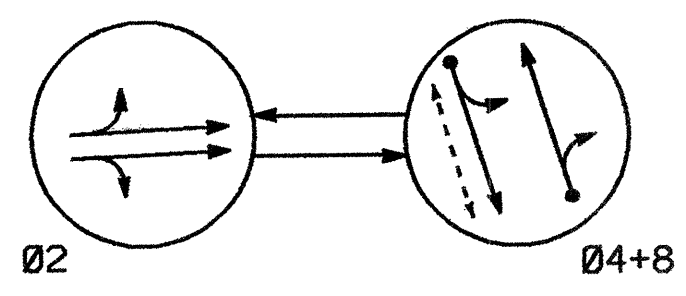


**PHASING DIAGRAM**



**PHASING DIAGRAM DETECTION LEGEND**

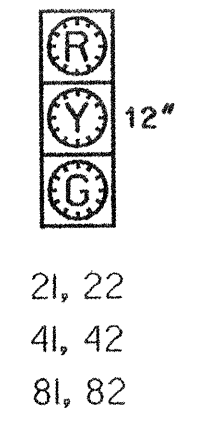
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE		
	Ø2	Ø4+8	FLASH
21, 22	G	R	Y
41, 42	R	G	R
81, 82	R	G	R

**SIGNAL FACE I.D.**

⊙ Denotes L.E.D.



**2070L LOOP & DETECTOR INSTALLATION**

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

**2 Phase Semi-Actuated (Gastonia City System)**

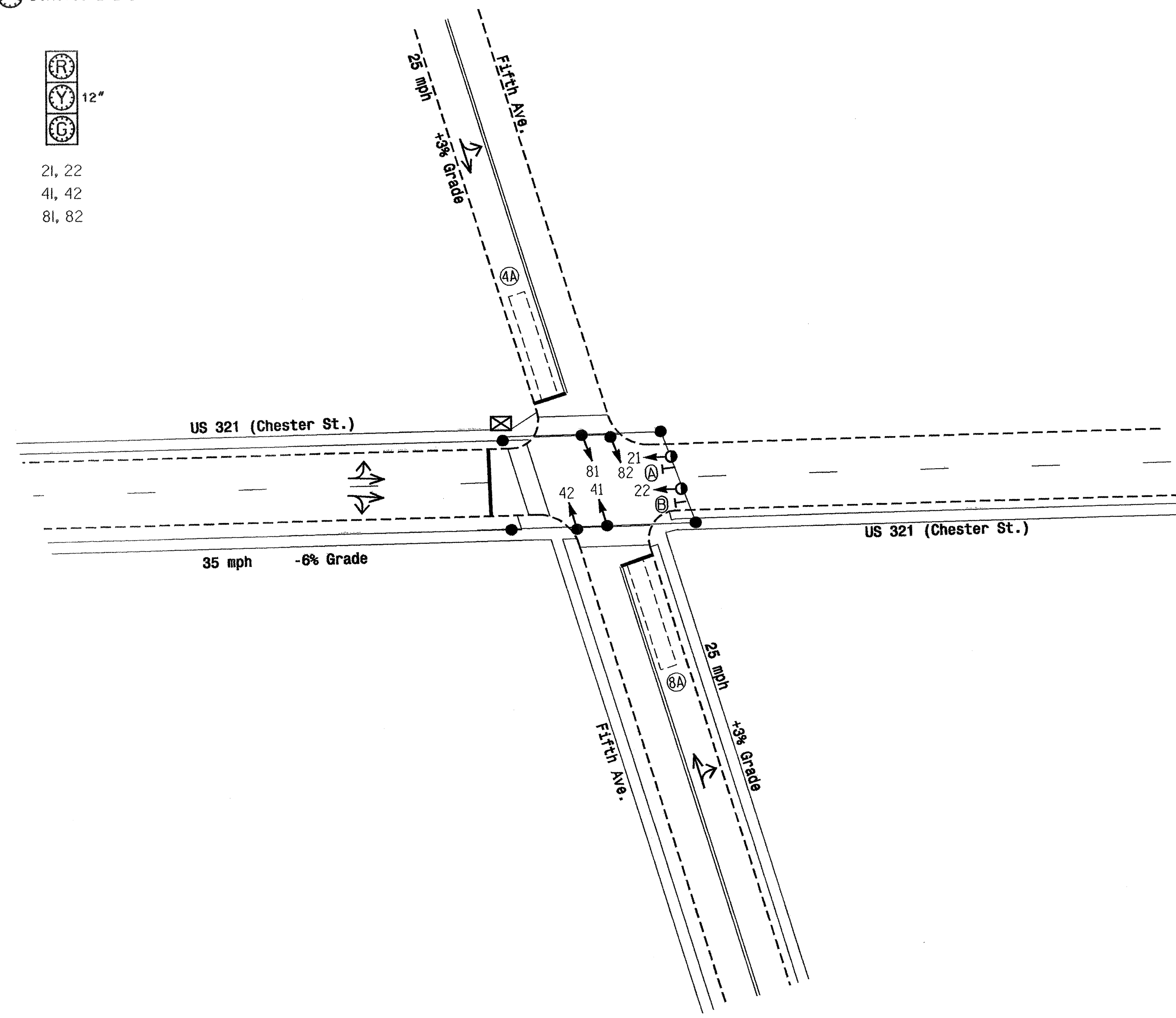
**NOTES**

- 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 0071.

FEATURE	PHASE		
	2	4	8
Min Green 1 *	10	7	7
Extension 1 *	0.0	2.0	2.0
Max Green 1 *	45	25	25
Yellow Clearance	4.0	4.0	4.0
Red Clearance	1.5	1.0	1.0
Walk 1 *	-	4.0 **	-
Don't Walk 1	-	4.0 **	-
Seconds Per Actuation *	-	-	-
Max Variable Initial *	-	-	-
Time Before Reduction *	-	-	-
Time To Reduce *	-	-	-
Minimum Gap	-	-	-
Recall Mode	MAX RECALL	-	-
Vehicle Call Memory	-	-	-
Dual Entry	-	ON	ON
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.

\*\* These values are due to existing pedestrian push button.



PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
● → Modified Signal Head	○ → N/A
⊥ Sign	⊥ N/A
⊥ Pedestrian Signal Head With Push Button & Sign	⊥ N/A
⊥ Signal Pole with Guy	⊥ N/A
⊥ Signal Pole with Sidewalk Guy	⊥ N/A
⊠ Inductive Loop Detector	⊠ N/A
□ Controller & Cabinet	□ N/A
□ Pull Box	□ N/A
--- 2-in Underground Conduit	--- N/A
▲ Right of Way with Marker	▲ N/A
→ Directional Arrow	→ N/A
→ Pavement Marking Arrow	→ N/A
Combined Through and Left Arrow Sign (R3-6L)	Ⓐ
Combined Through and Right Arrow Sign (R3-6R)	Ⓑ

**Signal Upgrade**

<p>122 N. McDowell St., Raleigh, NC 27603</p>	<b>US 321 (Chester St.) at Fifth Ave.</b>		
	Division 12 Gaston County Gastonia		
	PLAN DATE: March 2005	REVIEWED BY:	
	PREPARED BY: C. Pierce	REVIEWED BY: D. Y. Ishak	
SCALE: 0 30 1"=30'	REVISIONS:	INIT. DATE:	SIGNATURE DATE
			12-0071