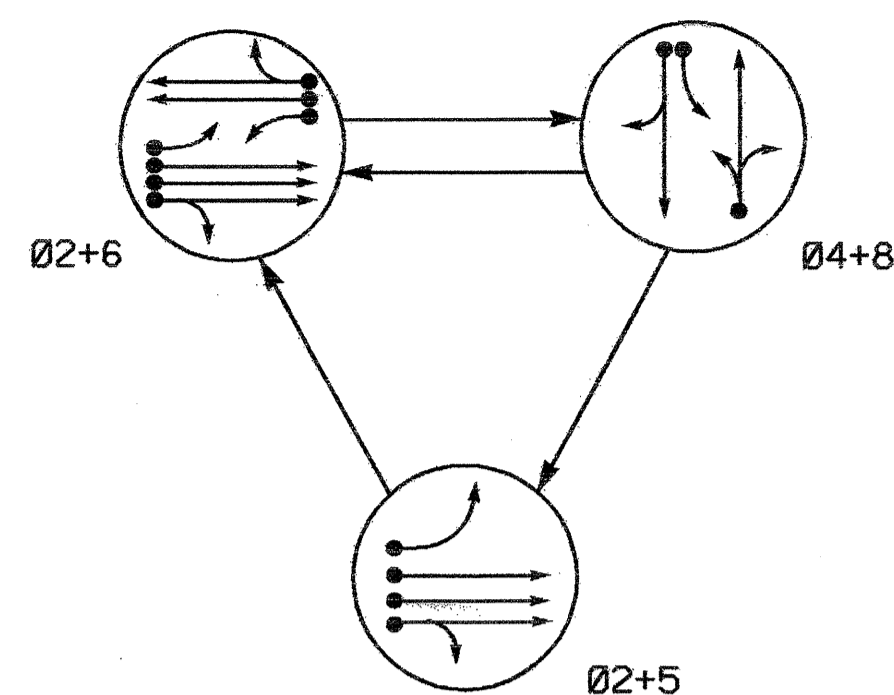
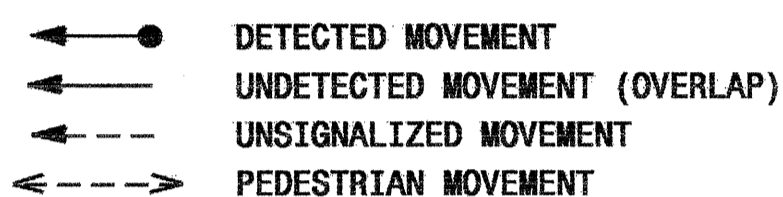


PHASING DIAGRAM

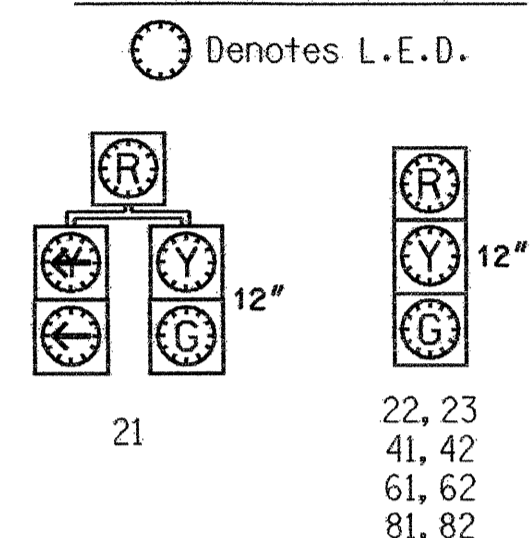


PHASING DIAGRAM DETECTION LEGEND



SIGNAL FACE	PHASE			
	02+5	02+6	04+8	F. LEGIST
21	Y	G	R	Y
22, 23	G	G	R	Y
41, 42	R	R	G	R
61, 62	R	G	R	Y
81, 82	R	R	G	R

SIGNAL FACE I.D.



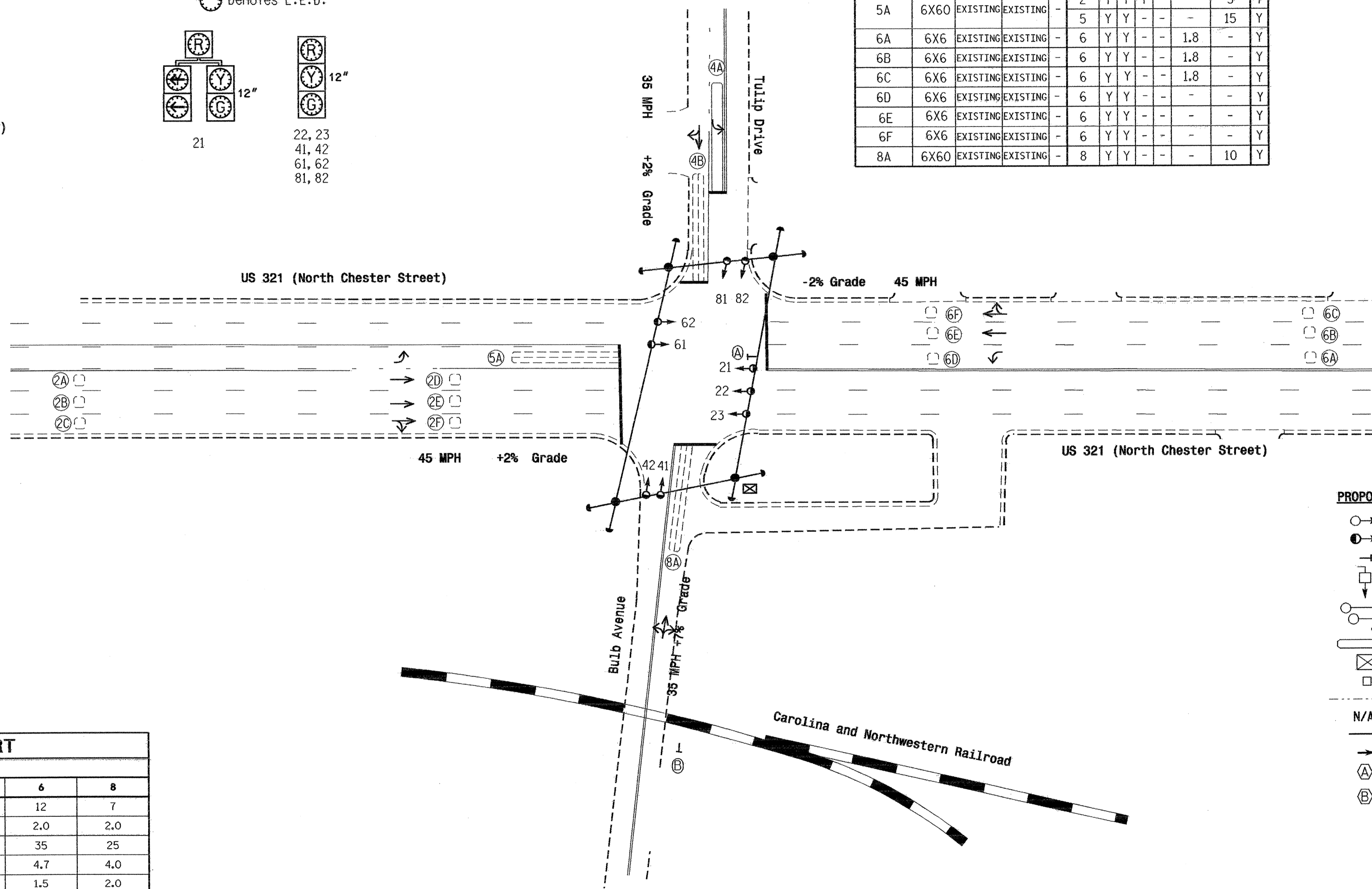
2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	INDUCTIVE LOOPS		DETECTOR PROGRAMMING								
		TURNS	DISTANCE FROM STOPBAR (FT)	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD	
2A	6X6	EXISTING	EXISTING	-	2	Y	Y	-	-	1.8	-	Y
2B	6X6	EXISTING	EXISTING	-	2	Y	Y	-	-	1.8	-	Y
2C	6X6	EXISTING	EXISTING	-	2	Y	Y	-	-	1.8	-	Y
2D	6X6	EXISTING	EXISTING	-	2	Y	Y	-	-	-	-	Y
2E	6X6	EXISTING	EXISTING	-	2	Y	Y	-	-	-	-	Y
2F	6X6	EXISTING	EXISTING	-	2	Y	Y	-	-	-	-	Y
4A	6X60	EXISTING	EXISTING	-	4	Y	Y	-	-	-	-	Y
4B	6X60	EXISTING	EXISTING	-	4	Y	Y	-	-	-	10	Y
5A	6X60	EXISTING	EXISTING	-	2	Y	Y	Y	-	-	3	Y
6A	6X6	EXISTING	EXISTING	-	6	Y	Y	-	-	1.8	-	Y
6B	6X6	EXISTING	EXISTING	-	6	Y	Y	-	-	1.8	-	Y
6C	6X6	EXISTING	EXISTING	-	6	Y	Y	-	-	1.8	-	Y
6D	6X6	EXISTING	EXISTING	-	6	Y	Y	-	-	-	-	Y
6E	6X6	EXISTING	EXISTING	-	6	Y	Y	-	-	-	-	Y
6F	6X6	EXISTING	EXISTING	-	6	Y	Y	-	-	-	-	Y
8A	6X60	EXISTING	EXISTING	-	8	Y	Y	-	-	-	10	Y

3 Phase Fully Actuated (Gastonia City System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Omit phase 5 during phase 6 on.
4. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Pavement markings are existing.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
8. City system data: Controller Asset #: 0922.



PROPOSED	EXISTING
	N/A
N/A	

2070L TIMING CHART

FEATURE	PHASE				
	2	4	5	6	8
Min Green 1*	12	7	7	12	7
Extension 1*	2.0	1.0	2.0	2.0	2.0
Max Green 1*	35	25	15	35	25
Yellow Clearance	4.7	4.0	4.0	4.7	4.0
Red Clearance	1.5	2.0	2.2	1.5	2.0
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	-	ON	-	-	ON
Simultaneous Gap	ON	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.

Signal Upgrade

	US 321 (North Chester Street)		
	at Tulip Drive and Bulb Avenue		
	Division 12 Gastonia	Gastonia	
PLAN DATE: November 2004	REVIEWED BY: Z.M. Little	PREPARED BY: L. Blount	REVIEWED BY: D.Y. Ishak
REVISIONS	INIT.	DATE	
SCALE: 1"=40'			SIGNATURE: <i>[Signature]</i> DATE: 2 December 04
SIGNED: <i>[Signature]</i>			SIG. INVENTORY NO. 12-0922