

5 Phase Semi-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. Phase 1 or phase 5 may be lagged.
4. Set all detector units to presence mode.
5. In the event of loop replacement, refer to the current Signals and Geometrics Design Manual and submit a Plan of Record to the Signals and Geometrics Section.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Pavement markings are existing.
8. Closed loop system data: Controller Asset 0032.

PHASING DIAGRAM

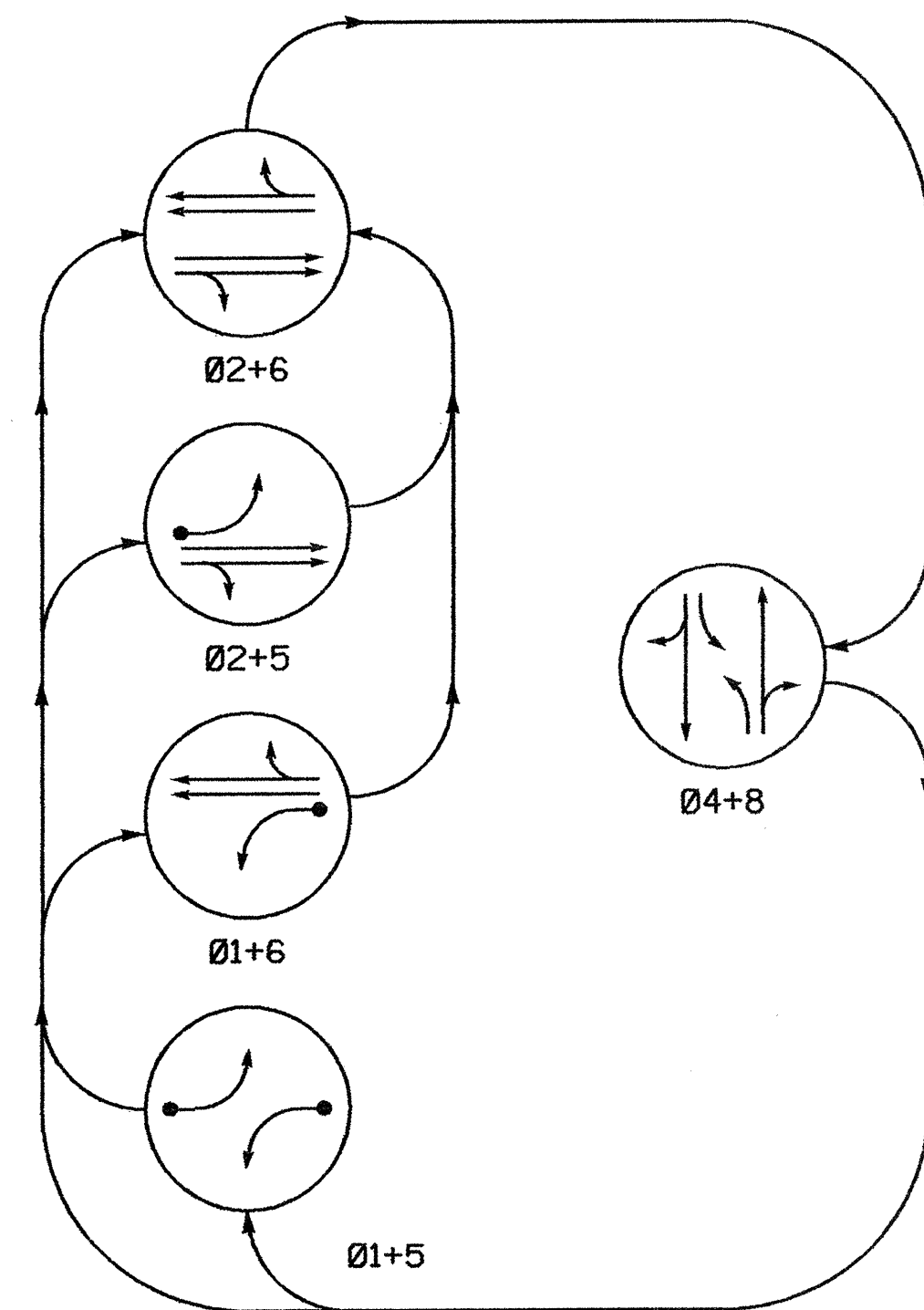
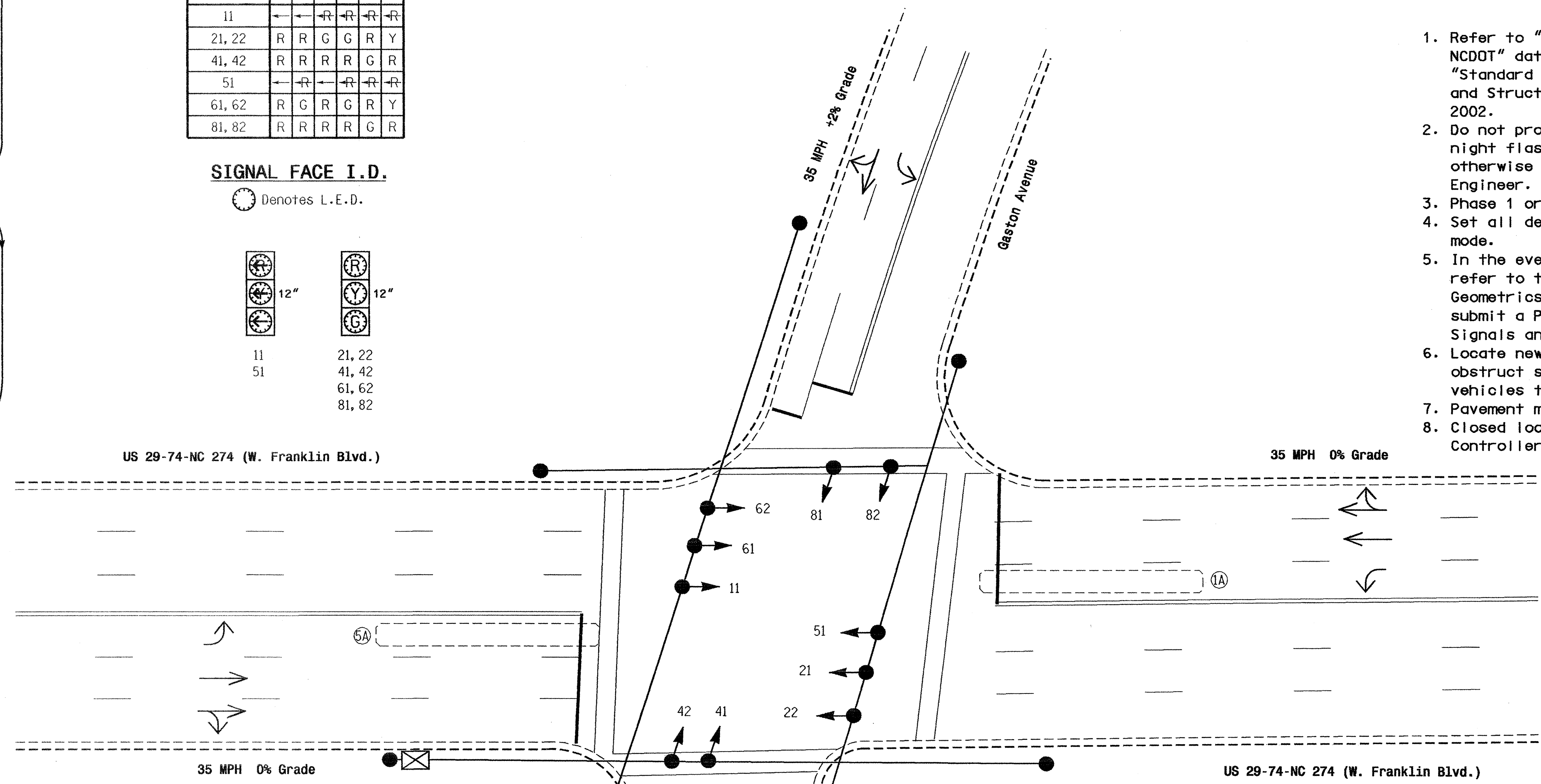
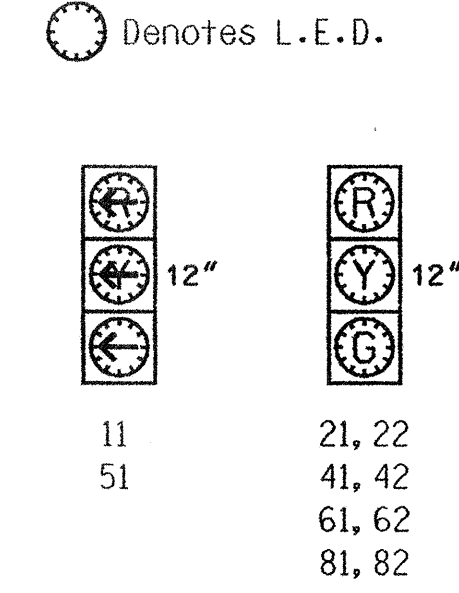


TABLE OF OPERATION

SIGNAL FACE	PHASE				
	01+5	01+6	02+5	02+6	FLASH
11	-	-	-	-	-
21, 22	R	R	G	G	Y
41, 42	R	R	R	R	G
51	-	-	-	-	-
61, 62	R	G	R	G	Y
81, 82	R	R	R	R	G

SIGNAL FACE I.D.



PHASING DIAGRAM DETECTION LEGEND

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

2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING								
				NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	EXISTING	EXISTING	EXISTING	-	1	Y	Y	-	-	3	-	Y
5A	EXISTING	EXISTING	EXISTING	-	5	Y	Y	-	-	3	-	Y

LEGEND

- PROPOSED: Traffic Signal Head, Modified Signal Head, Pedestrian Signal Head, Signal Pole with Guy, Inductive Loop Detector, Junction Box, 2-in Underground Conduit, Directional Arrow, Pavement Marking Arrow.
- EXISTING: N/A, Signal Pole with Sidewalk Guy, Controller & Cabinet.

2070L TIMING CHART

FEATURE	PHASE						
	1	2	4	5	6	8	
Min Green 1*	7	10	7	7	10	7	
Extension 1*	1.0	0.0	0.0	1.0	0.0	0.0	
Max Green 1*	15	60	25	15	60	25	
Yellow Clearance	4.0	4.0	4.0	4.0	4.0	4.0	
Red Clearance	3.4	1.8	2.4	2.9	1.8	2.4	
Walk 1*	-	-	-	-	-	-	
Don't Walk 1	-	-	-	-	-	-	
Seconds Per Actuation*	-	-	-	-	-	-	
Max Variable Initial*	-	-	-	-	-	-	
Time Before Reduction*	-	-	-	-	-	-	
Time To Reduce*	-	-	-	-	-	-	
Minimum Gap	-	-	-	-	-	-	
Recall Mode	-	MAX RECALL	MAX RECALL	-	MAX RECALL	MAX RECALL	
Vehicle Call Memory	-	-	-	-	-	-	
Dual Entry	-	-	-	-	-	-	
Simultaneous Gap	ON	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

Prepared in the Offices of:

US 29-74-NC 274 (W. Franklin Boulevard) at Linwood Road/Gaston Avenue
 Division 12 Gaston County Gastonia
 PLAN DATE: January 2005 REVIEWED BY: D.Y. Ishak
 PREPARED BY: Z.M. Little REVIEWED BY:
 REVISIONS: INIT. DATE
 SCALE: 1"=20'
 SIGNATURE: DATE: 12-0032

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