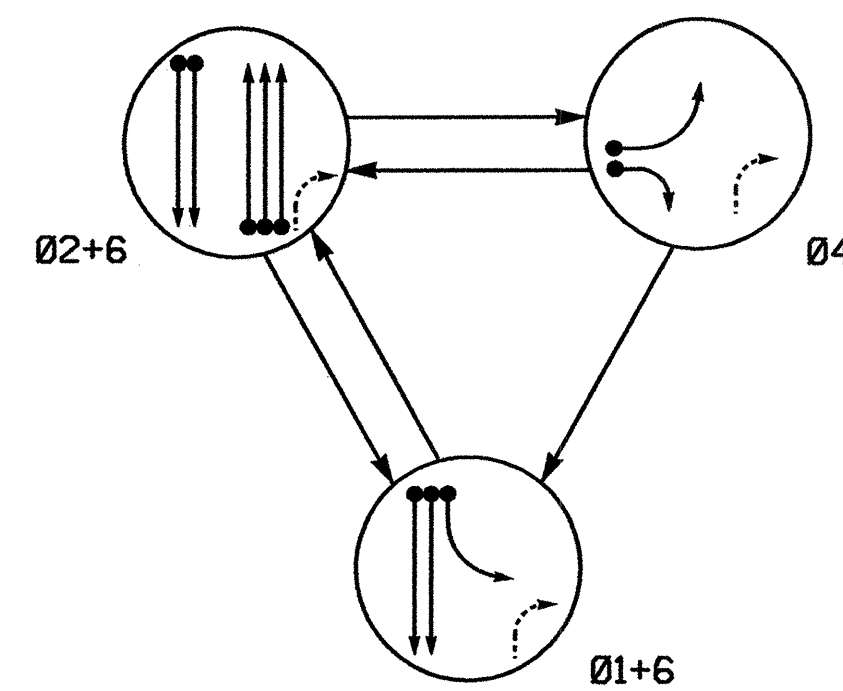


PHASING DIAGRAM

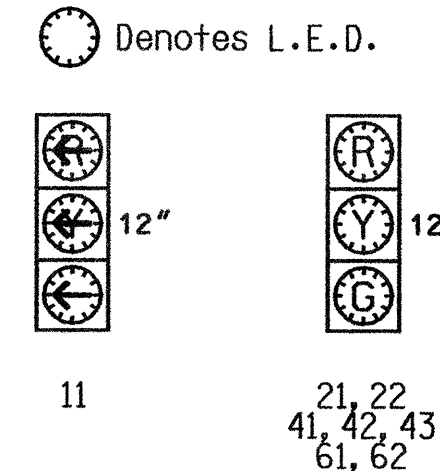


PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE			
	01+6	02+6	04	F L C H S
11	←	→	→	→
21,22	R	G	R	Y
41,42,43	R	R	G	R
61, 62	G	G	R	Y

SIGNAL FACE I.D.



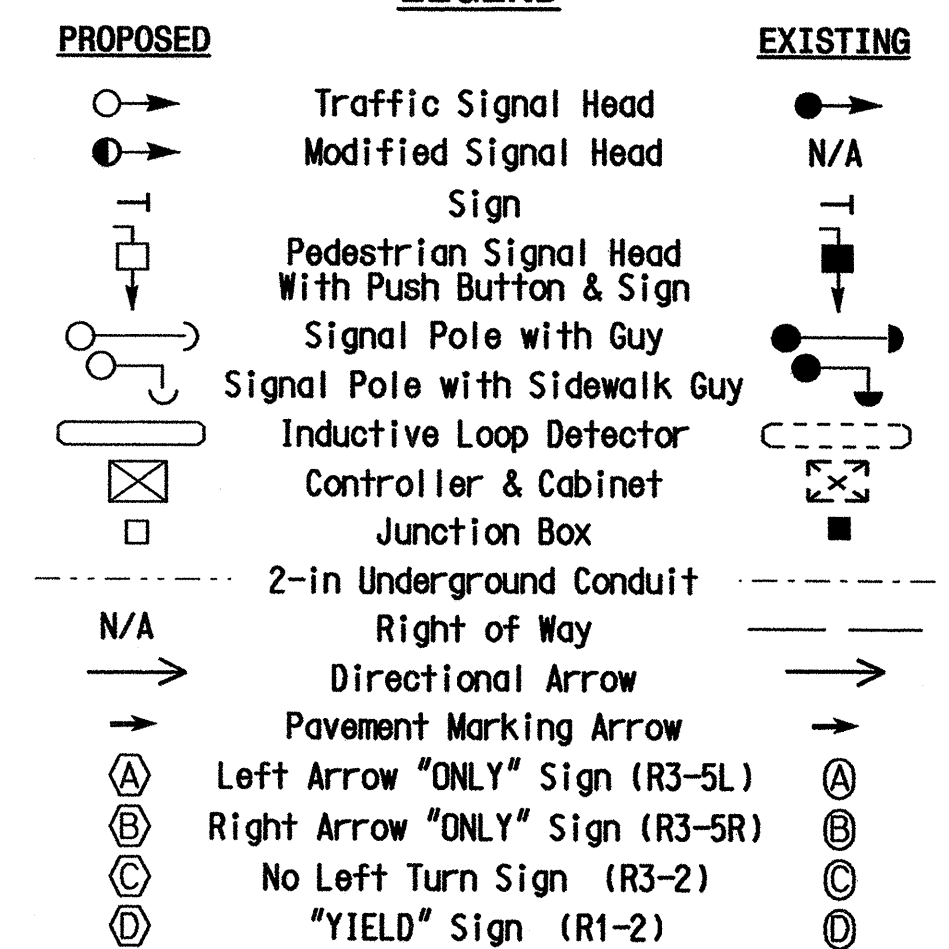
2070L LOOP & DETECTOR INSTALLATION												
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING					SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME			DELAY TIME
1A	EXIST	EXIST	EXIST	-	1	Y	Y	-	-	3	-	Y
2A	EXIST	EXIST	EXIST	-	2	Y	Y	-	-	-	-	Y
4A	EXIST	EXIST	EXIST	-	4	Y	Y	-	-	-	-	Y
4B	EXIST	EXIST	EXIST	-	4	Y	Y	-	-	15	-	Y
6A	EXIST	EXIST	EXIST	-	6	Y	Y	-	-	-	-	Y

3 Phase Fully Actuated  
Gastonia City Signal 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 may be lagged.
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. Closed loop system data: Controller Asset #1086.

LEGEND



This Plan shall supersede the plan signed and sealed by Richard E. Mullinax, PE on 02/18/2005.

FEATURE	PHASE			
	1	2	4	6
Min Green 1*	7	10	7	10
Extension 1*	1.0	3.0	1.0	3.0
Max Green 1*	15	45	25	45
Yellow Clearance	4.0	4.0	4.0	4.0
Red Clearance	2.7	2.8	1.5	2.8
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.

Signal Upgrade

Prepared in the Offices of:  
The Department of Public Safety  
UNIVERSITY OF NORTH CAROLINA  
SCHOOL OF TRANSPORTATION  
Signals and Geometrics Section

222 N. McDowell St., Raleigh, NC 27603

**SR 2200 (Cox Road)  
at  
I-85 Northbound Ramp**

Division 12 Gaston County Gastonia

PLAN DATE: November 2005 REVIEWED BY: Z.M. Little  
PREPARED BY: C. E. Pierce REVIEWED BY: D.Y. Ishak

REVISIONS INIT. DATE

SEAL  
NORTH CAROLINA  
PROFESSIONAL ENGINEER  
RICHARD E. MULLINAX  
35th January 06

SIGNATURE DATE

SIG. INVENTORY NO. 12-1086

SCALE 1"=20'

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