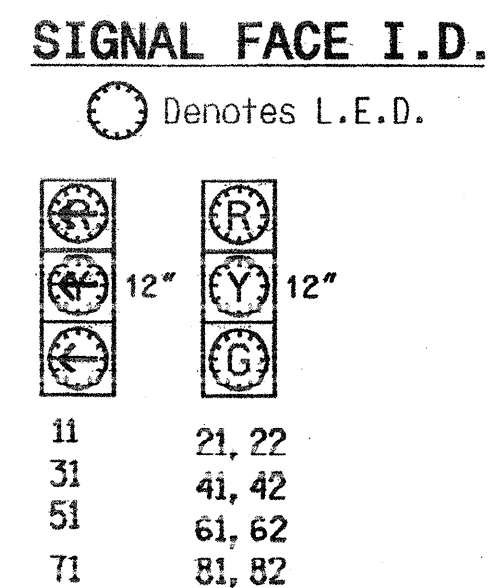


**PHASING DIAGRAM DETECTION LEGEND**

● — DETECTED MOVEMENT  
 — — UNDETECTED MOVEMENT (OVERLAP)  
 - - - UNSIGNALIZED MOVEMENT  
 <--- -- PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11								
21, 22	R	R	G	G	R	R	R	Y
31	R	R	R	R			R	R
41, 42	R	R	R	R	R	R	G	G
51								
61, 62	R	G	R	G	R	R	R	Y
71	R	R	R	R			R	R
81, 82	R	R	R	R	R	G	R	G

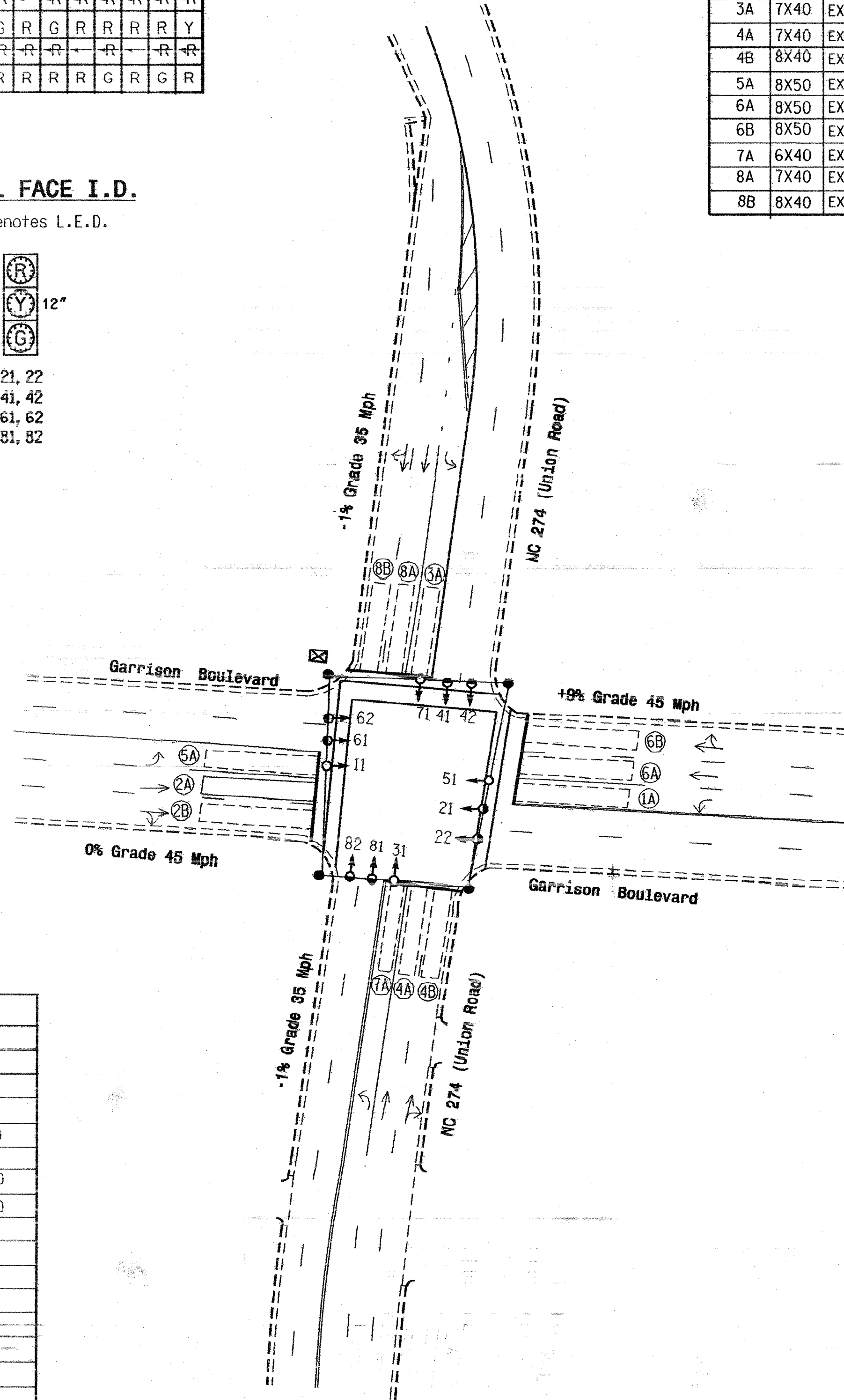


2070L LOOP & DETECTOR INSTALLATION											
INDUCTIVE LOOPS					DETECTOR PROGRAMMING						
LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	NEW CAB
1A	8X50	EXISTING	EXISTING	-	1	Y	Y	-	-	3	Y
2A	8X50	EXISTING	EXISTING	-	2	Y	Y	-	-	-	Y
2B	8X50	EXISTING	EXISTING	-	2	Y	Y	-	-	-	Y
3A	7X40	EXISTING	EXISTING	-	3	Y	Y	-	-	-	Y
4A	7X40	EXISTING	EXISTING	-	4	Y	Y	-	-	-	Y
4B	8X40	EXISTING	EXISTING	-	4	Y	Y	-	-	10	Y
5A	8X50	EXISTING	EXISTING	-	5	Y	Y	-	-	3	Y
6A	8X50	EXISTING	EXISTING	-	6	Y	Y	-	-	-	Y
6B	8X50	EXISTING	EXISTING	-	6	Y	Y	-	-	-	Y
7A	6X40	EXISTING	EXISTING	-	7	Y	Y	-	-	-	Y
8A	7X40	EXISTING	EXISTING	-	8	Y	Y	-	-	-	Y
8B	8X40	EXISTING	EXISTING	-	8	Y	Y	-	-	10	Y

**8 Phase Fully Actuated (Gastonia City System)**

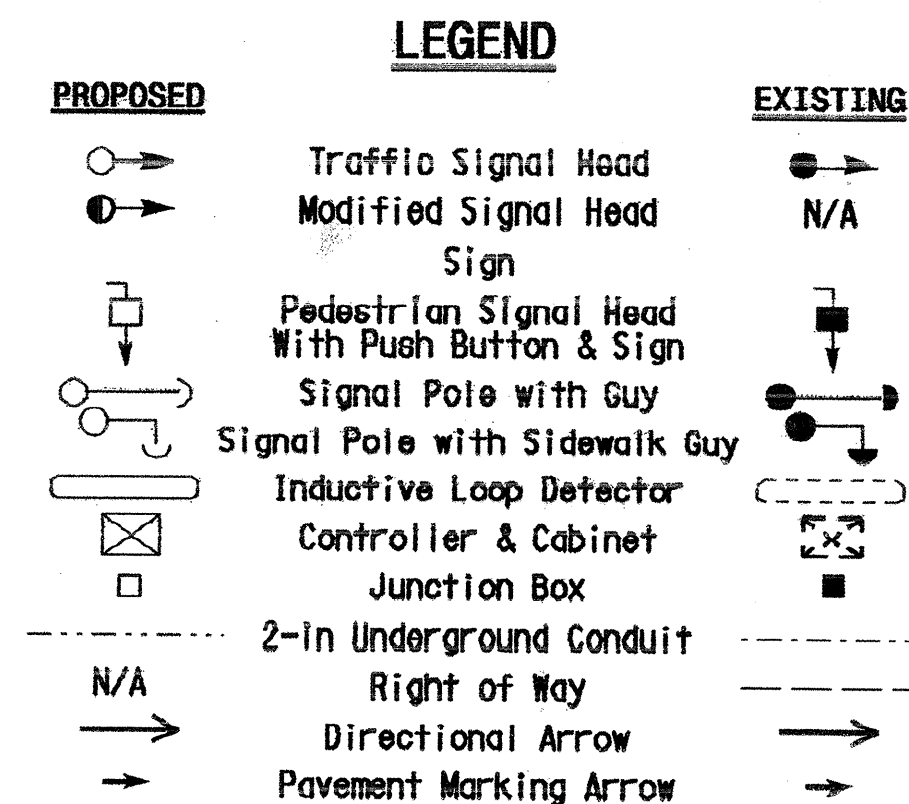
**NOTES**

- 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.
- Phase 1 or phase 5 may be lagged.
- Phase 3 or phase 7 may be lagged.
- Pavement markings are existing.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 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.
- Remove existing "Left Turn Signal" sign(s)-(R10-10L) and/or existing "Right Turn Signal" sign(s)-(R10-10R).
- City system data: Controller Asset #: 0098.



FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1*	7	12	7	7	7	12	7	7
Extension 1*	2	1	1	1	1	2	1	1
Max Green 1*	20	45	20	30	20	45	20	30
Max Green 2*	-	-	-	-	-	-	-	-
Yellow Clearance	4.0	4.7	4.0	4.0	4.0	4.7	4.0	4.0
Red Clearance	1.7	1.4	1.8	2.0	1.7	1.4	1.8	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	-	-	-	-	-	-	-	-
Simultaneous Gap	ON	ON	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 Office of:  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION 12  
 GASTON COUNTY  
 GASTONIA

**Garrison Boulevard at NC 274 (Union Road)**

Division 12 Gaston County Gastonia  
 PLAN DATE: October 2004 REVIEWED BY: C. Krauss  
 PREPARED BY: J. McCarthy REVIEWED BY: D Y Ishak  
 SCALE: 1" = 40'  
 REVISIONS: \_\_\_\_\_ INIT. DATE \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SIG. INVENTORY NO. 12-0098