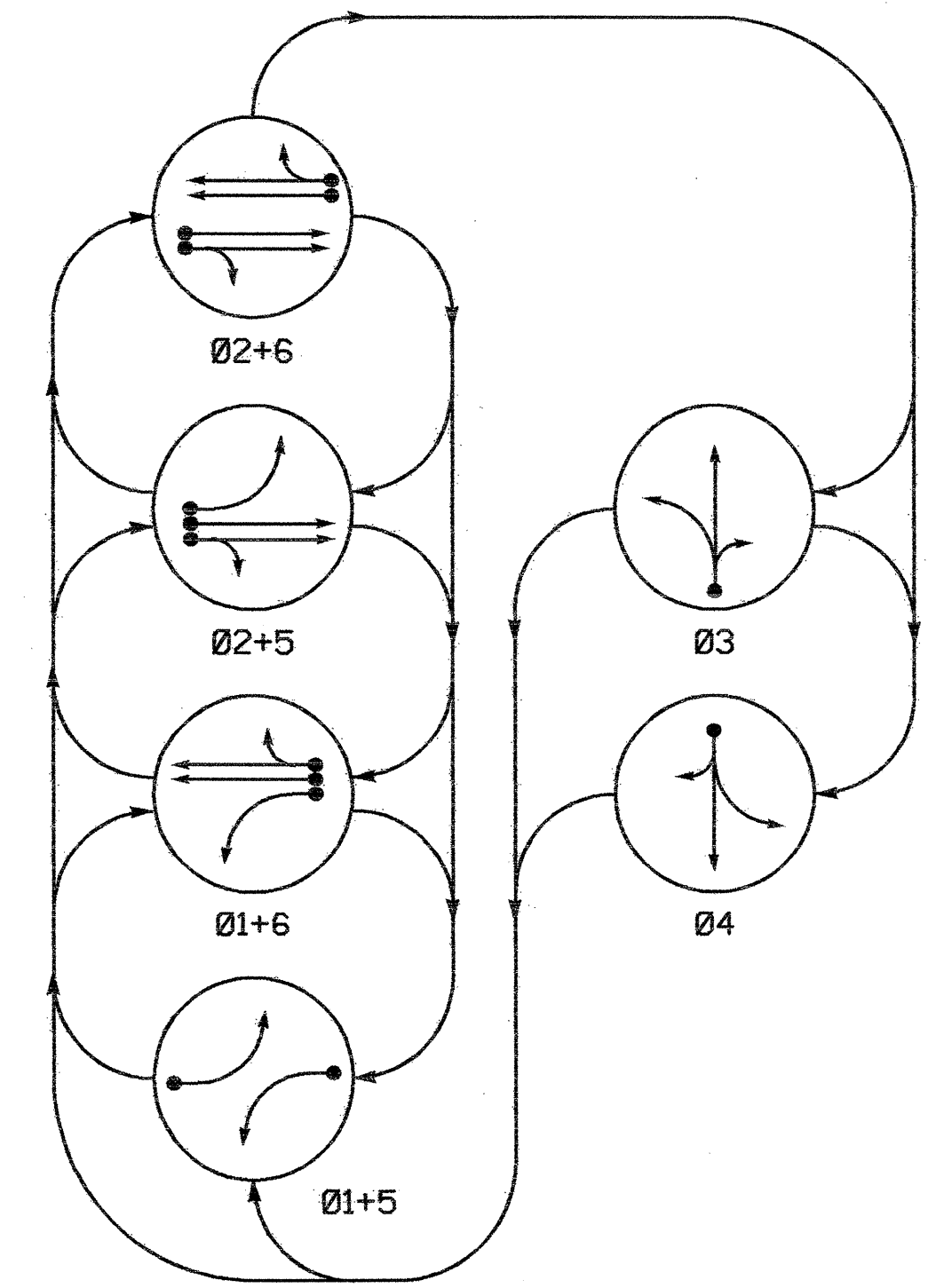


PHASING DIAGRAM



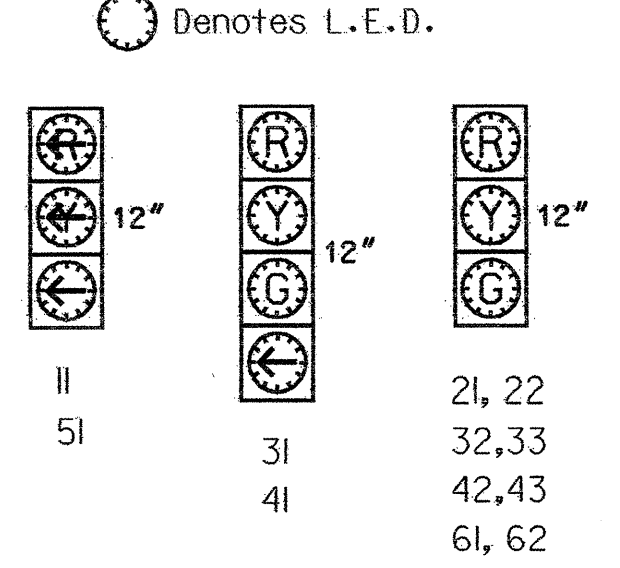
PHASING DIAGRAM DETECTION LEGEND

- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ←- - -> PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE					
	Ø 1+5	Ø 2+5	Ø 2+6	Ø 3	Ø 4	FLASH
II	R	R	R	R	R	R
21, 22	R	R	G	G	R	Y
31	R	R	R	R	G	R
32, 33	R	R	R	R	G	R
41	R	R	R	R	R	G
42, 43	R	R	R	R	R	G
51	R	R	R	R	R	R
61, 62	R	G	R	G	R	Y

SIGNAL FACE I.D.



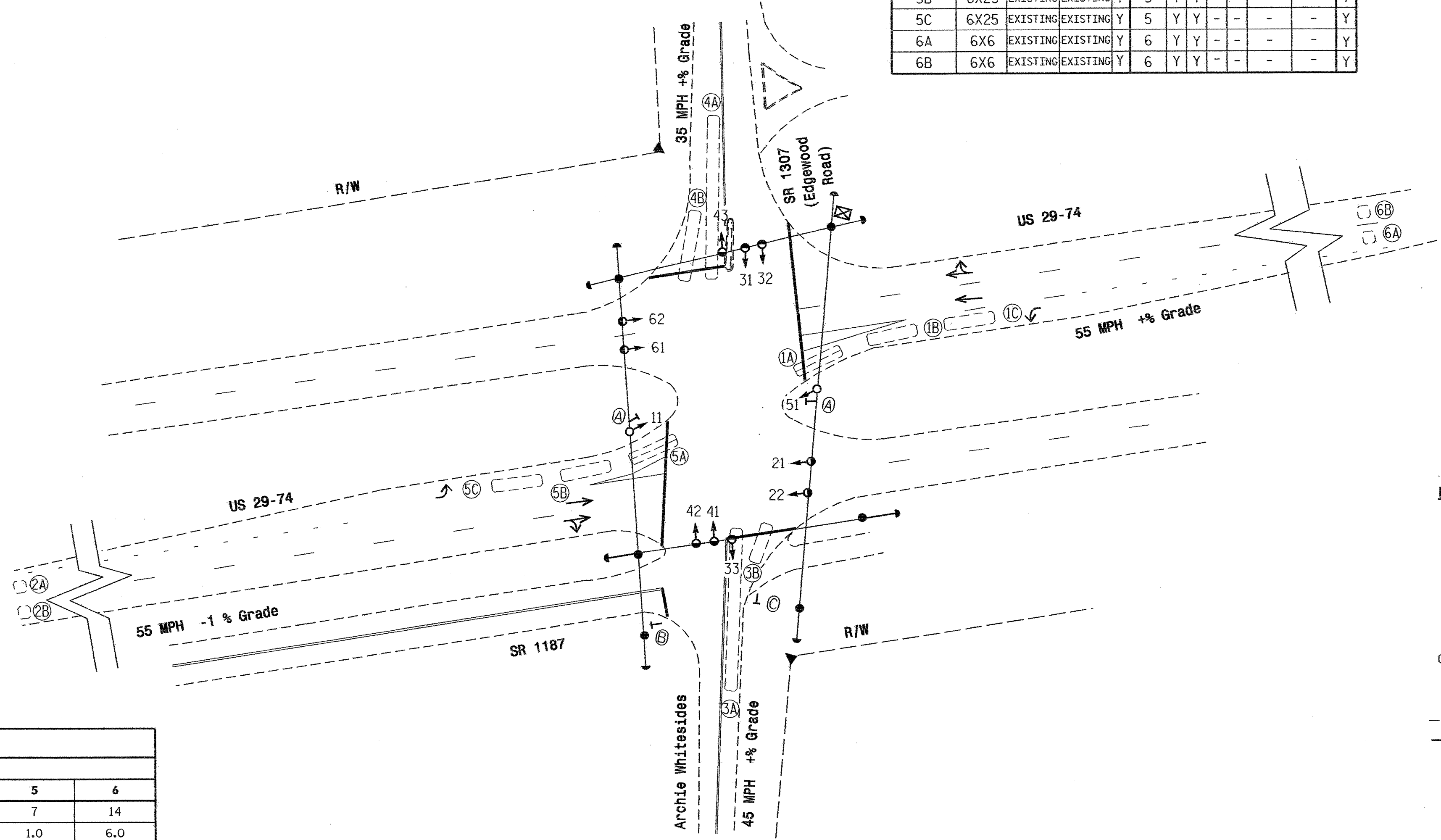
2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
1A	6X25	EXISTING	EXISTING	Y	1	Y	Y	-	-	-	-	Y
1B	6X25	EXISTING	EXISTING	Y	1	Y	Y	-	-	-	-	Y
1C	6X25	EXISTING	EXISTING	Y	1	Y	Y	-	-	-	-	Y
2A	6X6	EXISTING	EXISTING	Y	2	Y	Y	-	-	-	-	Y
2B	6X6	EXISTING	EXISTING	Y	2	Y	Y	-	-	-	-	Y
3A	6X80	EXISTING	EXISTING	Y	3	Y	Y	-	-	-	15	Y
3B	6X20	EXISTING	EXISTING	Y	3	Y	Y	-	-	-	15	Y
4A	6X80	EXISTING	EXISTING	Y	4	Y	Y	-	-	-	15	Y
4B	6X35	EXISTING	EXISTING	Y	4	Y	Y	-	-	-	15	Y
5A	6X25	EXISTING	EXISTING	Y	5	Y	Y	-	-	-	-	Y
5B	6X25	EXISTING	EXISTING	Y	5	Y	Y	-	-	-	-	Y
5C	6X25	EXISTING	EXISTING	Y	5	Y	Y	-	-	-	-	Y
6A	6X6	EXISTING	EXISTING	Y	6	Y	Y	-	-	-	-	Y
6B	6X6	EXISTING	EXISTING	Y	6	Y	Y	-	-	-	-	Y

6 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. Phase 1 or phase 5 may be lagged.
4. The order of phase 3 and phase 4 may be reversed.
5. Set all detector units to presence mode.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Pavement markings are existing.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
9. City system data: Controller Asset #: 0157.



2070L TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1*	7	14	7	7	7	14
Extension 1*	1.0	6.0	1.0	1.0	1.0	6.0
Max Green 1*	25	120	60	75	25	120
Yellow Clearance	3.0	5.3	4.5	3.8	3.0	5.2
Red Clearance	4.0	1.0	2.4	3.2	3.9	1.0
Walk 1*	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation*	-	1.5	-	-	-	1.5
Max Variable Initial*	-	44	-	-	-	44
Time Before Reduction*	-	20	-	-	-	20
Time To Reduction*	-	40	-	-	-	40
Minimum Gap	-	2.5	-	-	-	2.5
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW
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.

LEGEND

PROPOSED	EXISTING
N/A "LEFT TURN SIGNAL" Sign (R10-10L)	(A)
N/A "STOP" Sign (R1-1)	(B)
N/A "DO NOT BLOCK DRIVE" SIGN	(C)

Signal Upgrade

Prepared in the Office of:

US 29-74 At SR 1307 (Edgewood Road) / (Archie Whitesides)
 Division 12 Gaston County W. of Gastonia
 PLAN DATE: October 2004 REVIEWED BY: Z.W. Little
 PREPARED BY: L. Blount REVIEWED BY:
 REVISIONS: _____ INIT. DATE: _____
 SCALE: 1" = 40'
 SIGNATURE: _____ DATE: _____
 SIG. INVENTORY NO. 12-0157