

PHASING DIAGRAM

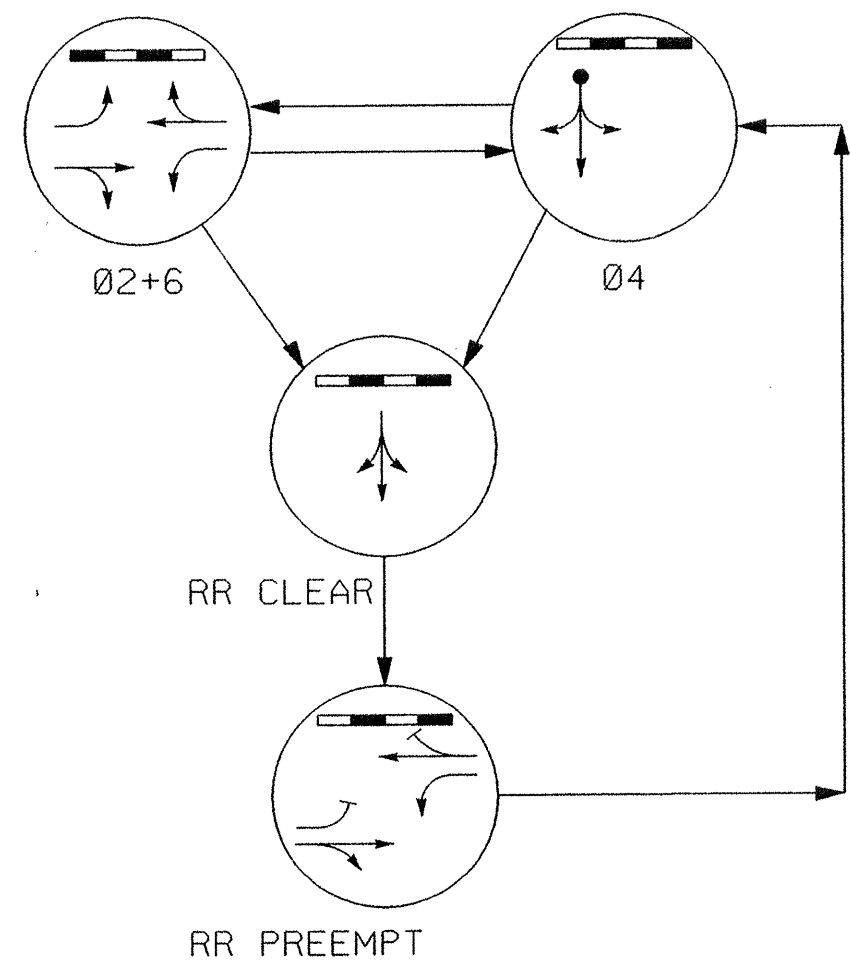
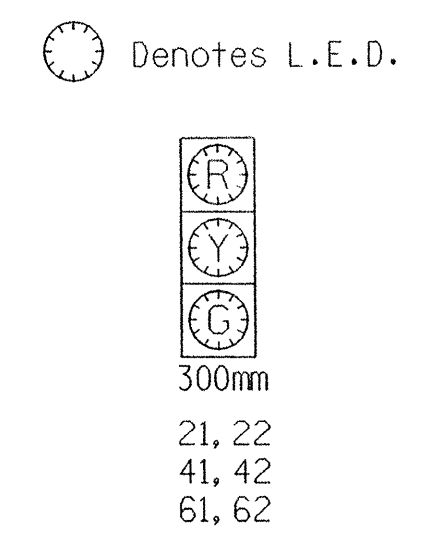


TABLE OF OPERATION

SIGNAL FACE	PHASE				
	02+6	04	RR CLEAR	RR PREEMPT	RR CLEAR
21,22	G	R	R	G	Y
41,42	R	G	G	R	R
61,62	G	R	R	G	Y

SIGNAL FACE I.D.



PLAN QUANTITIES

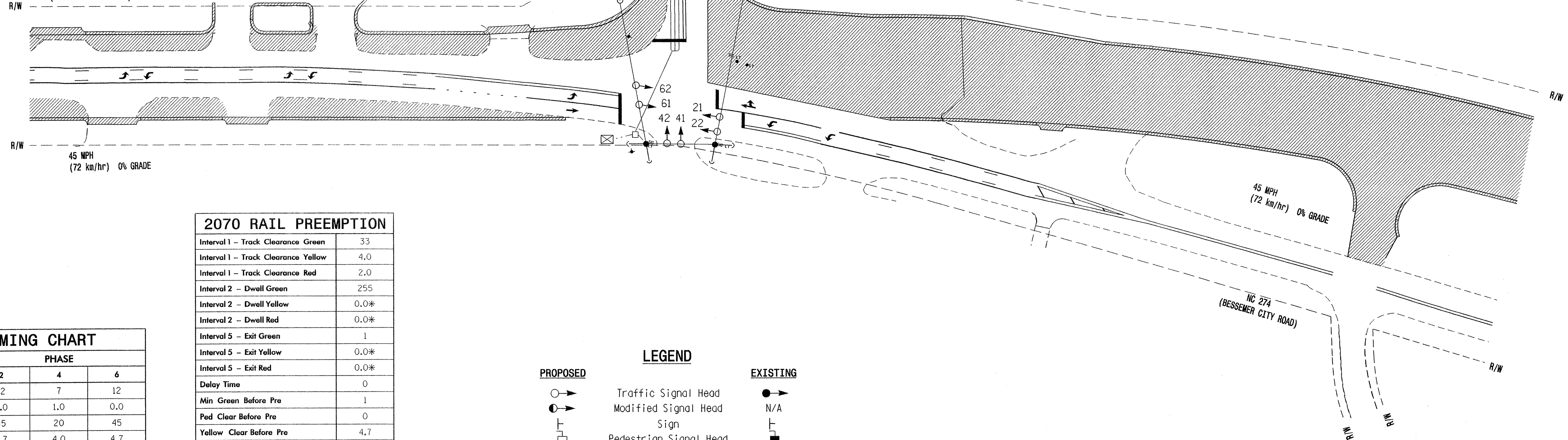
Pay Item	Meters
Signal Cable	250
Messenger Cable	85
Loop Lead-in Cable	10

2 PHASE SEMI ACTUATED RAILROAD PREEMPTION ISOLATED

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Set all detector units to presence mode.
3. This location contains railroad preemption phasing. Do not program signal for late night flashing operation.

NC 274 (BESSEMER CITY ROAD)



2070 RAIL PREEMPTION

Interval 1 - Track Clearance Green	33
Interval 1 - Track Clearance Yellow	4.0
Interval 1 - Track Clearance Red	2.0
Interval 2 - Dwell Green	255
Interval 2 - Dwell Yellow	0.0*
Interval 2 - Dwell Red	0.0*
Interval 5 - Exit Green	1
Interval 5 - Exit Yellow	0.0*
Interval 5 - Exit Red	0.0*
Delay Time	0
Min Green Before Pre	1
Ped Clear Before Pre	0
Yellow Clear Before Pre	4.7
Red Clear Before Pre	2.0
Dwell Min Time	10
Ped Clear Through Yellow	N

* Clearance time defaults to time used for phase during normal operation.

2070L TIMING CHART

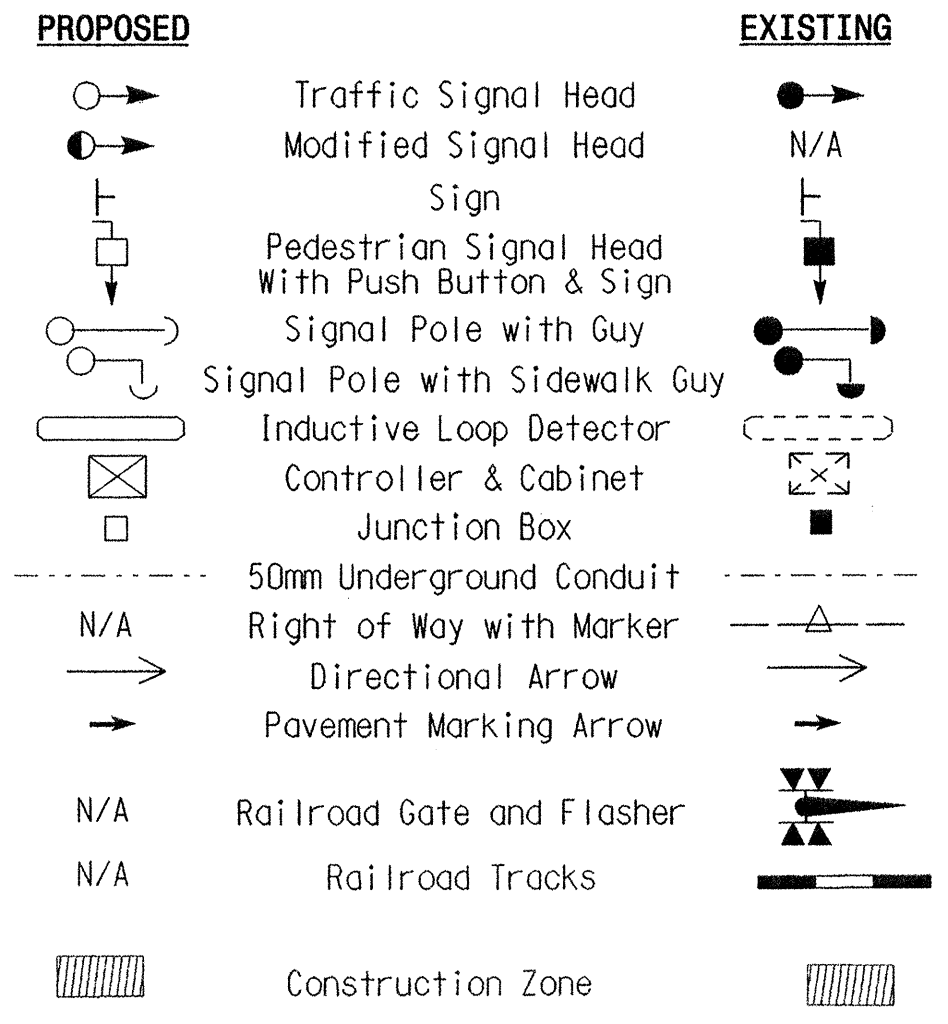
FEATURE	PHASE		
	2	4	6
Min Green 1 *	12	7	12
Extension 1 *	0.0	1.0	0.0
Max Green 1 *	45	20	45
Yellow Clearance	4.7	4.0	4.7
Red Clearance	1.0	2.0	1.0
Walk 1 *	-	-	-
Don't Walk 1	-	-	-
Seconds Per Actuation *	-	-	-
Max Variable Initial *	-	-	-
Time Before Reduction *	-	-	-
Time To Reduce *	-	-	-
Minimum Gap	-	-	-
Recall Mode	MAX RECALL	-	MAX RECALL
Vehicle Call Memory	YELLOW	-	YELLOW
Dual Entry	-	-	-
Simultaneous Gap	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.

2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (m)	TURNS	DISTANCE FROM STOPBAR (m)	INDUCTIVE LOOPS		DETECTOR PROGRAMMING				NEW CARD	
				NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP		STRETCH TIME
4A	1.8 X 18	2-4-2	+2	Y	4	Y	Y	-	-	10	Y

LEGEND



Prepared In the Office of:

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SIGNAL UPGRADE - TEMPORARY DESIGN 1

N.C. 274 (BESSEMER CITY ROAD) AT SR1338 (NORTHWEST BLVD.)

DIVISION 12 GASTON COUNTY GASTONIA

PLAN DATE: OCT. 30, 2003 REVIEWED BY: R. DUBNICKA, P.E.

PREPARED BY: RGL REVIEWED BY:

REVISIONS: INIT. DATE

SCALE: 1:500

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027742

SIGNATURE: Robert J. Dubnicka 8-9-04 DATE

SIG. INVENTORY NO. 12-015511