

PHASING DIAGRAM

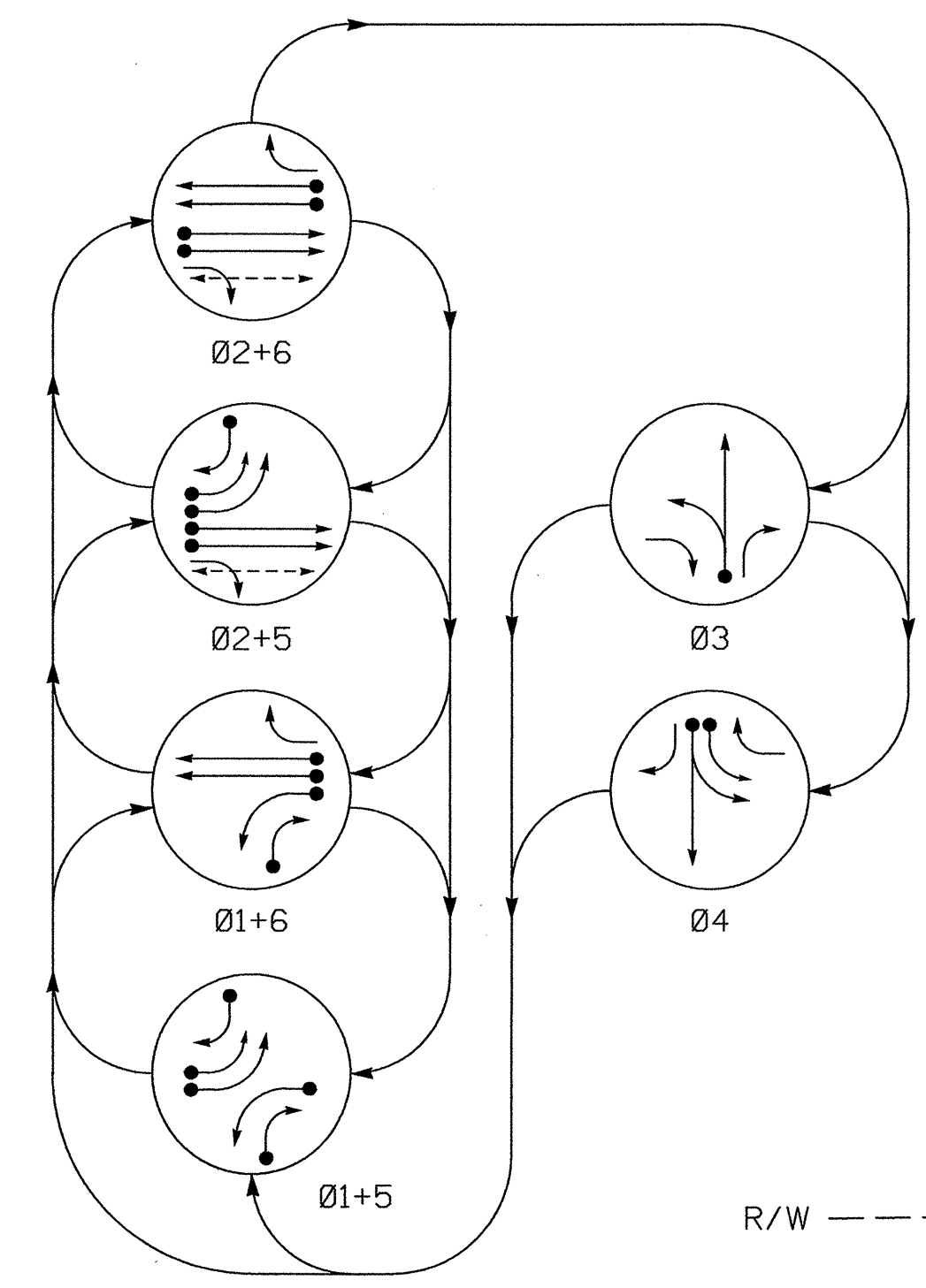
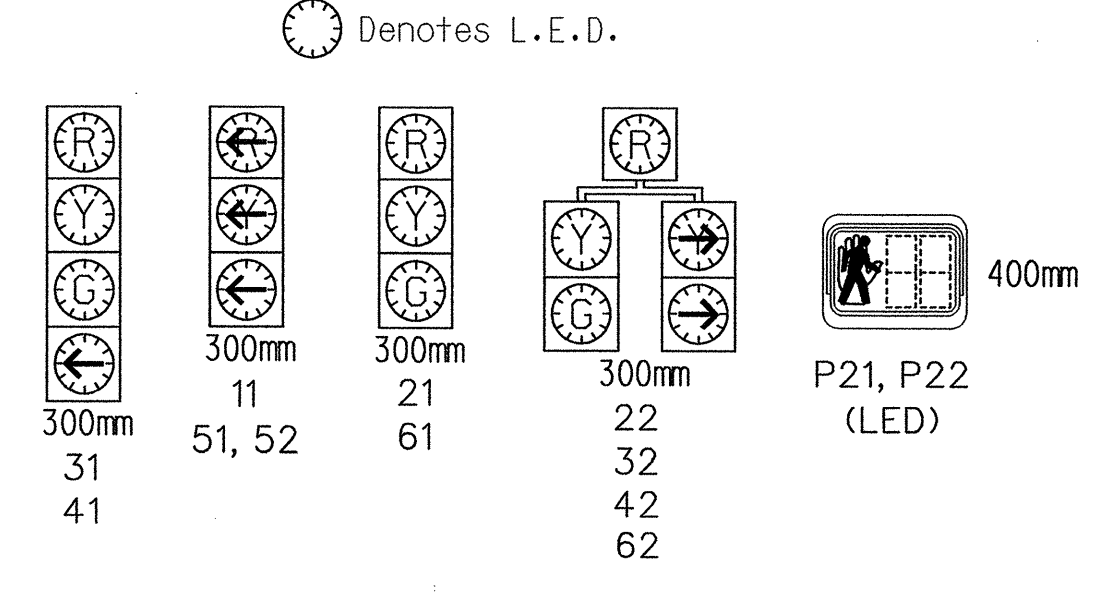


TABLE OF OPERATION

SIGNAL FACE	PHASE					
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 3	Ø 4
11	←	←	←	←	←	←
21	R	R	G	G	R	Y
22	R	R	G	G	R	Y
31	R	R	R	R	G	R
32	R	R	R	R	G	R
41	R	R	R	R	G	R
42	R	R	R	R	G	R
51, 52	←	←	←	←	←	←
61	R	G	R	G	R	Y
62	R	G	R	G	R	Y
P21, P22	DW	DW	W	W	DW	DW

SIGNAL FACE I.D.



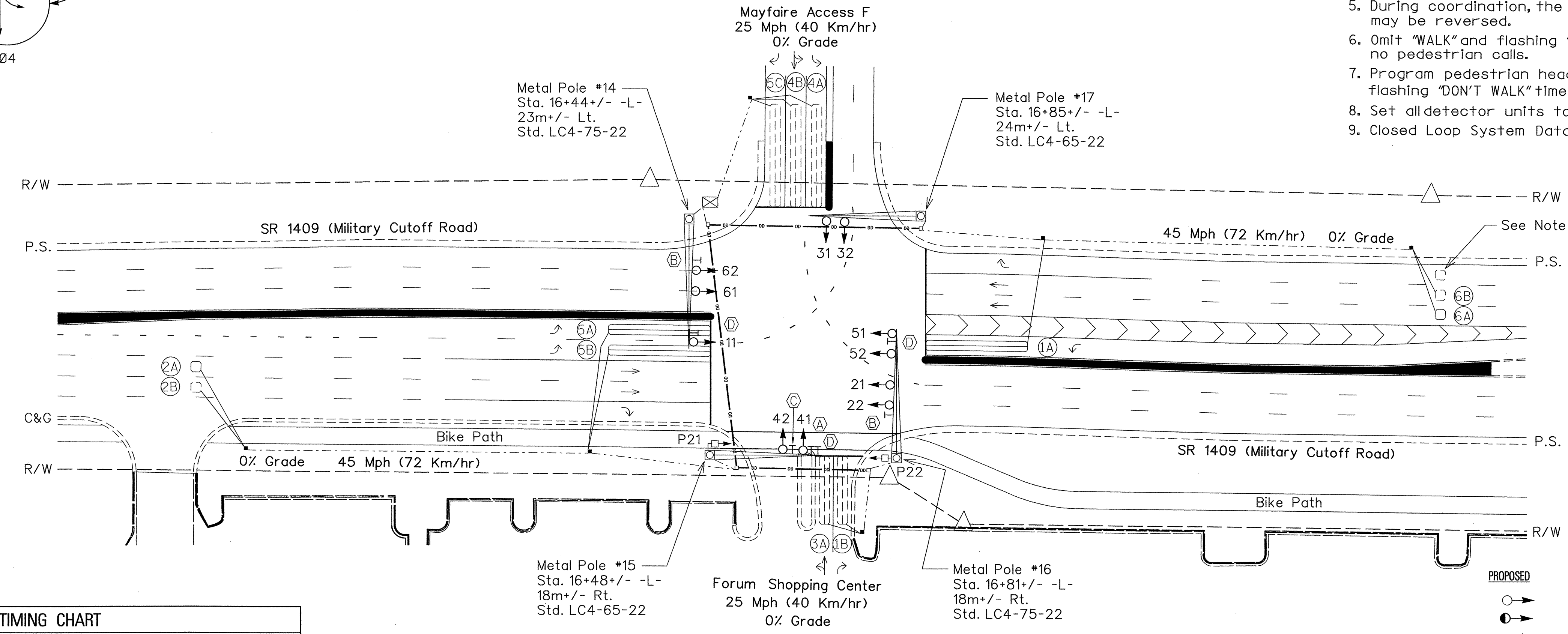
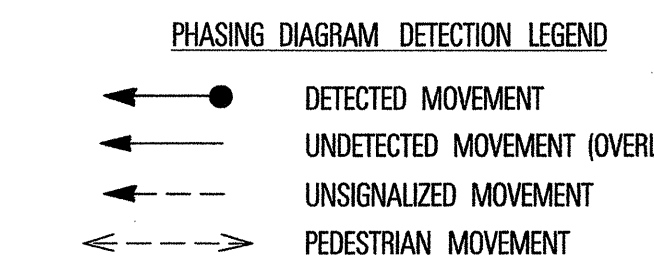
PLAN QUANTITIES

Pay Item	Meters
Signal Cable	430
Messenger Cable	0
Lead-in Cable	1020

6 Phase (Fully Actuated) (Military Cutoff Road Closed Loop System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Disconnect and abandon existing loop.
3. Maximum times shown in timing chart are for free-run operation only. Coordinated signalsystem timing values shall supersede these values.
4. During coordination, phase 1 and/or phase 5 may be lagged.
5. During coordination, the order of phase 3 and 4 may be reversed.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to count down the flashing "DON'T WALK" time only.
8. Set all detector units to presence mode.
9. Closed Loop System Data: Controller Asset #0895.

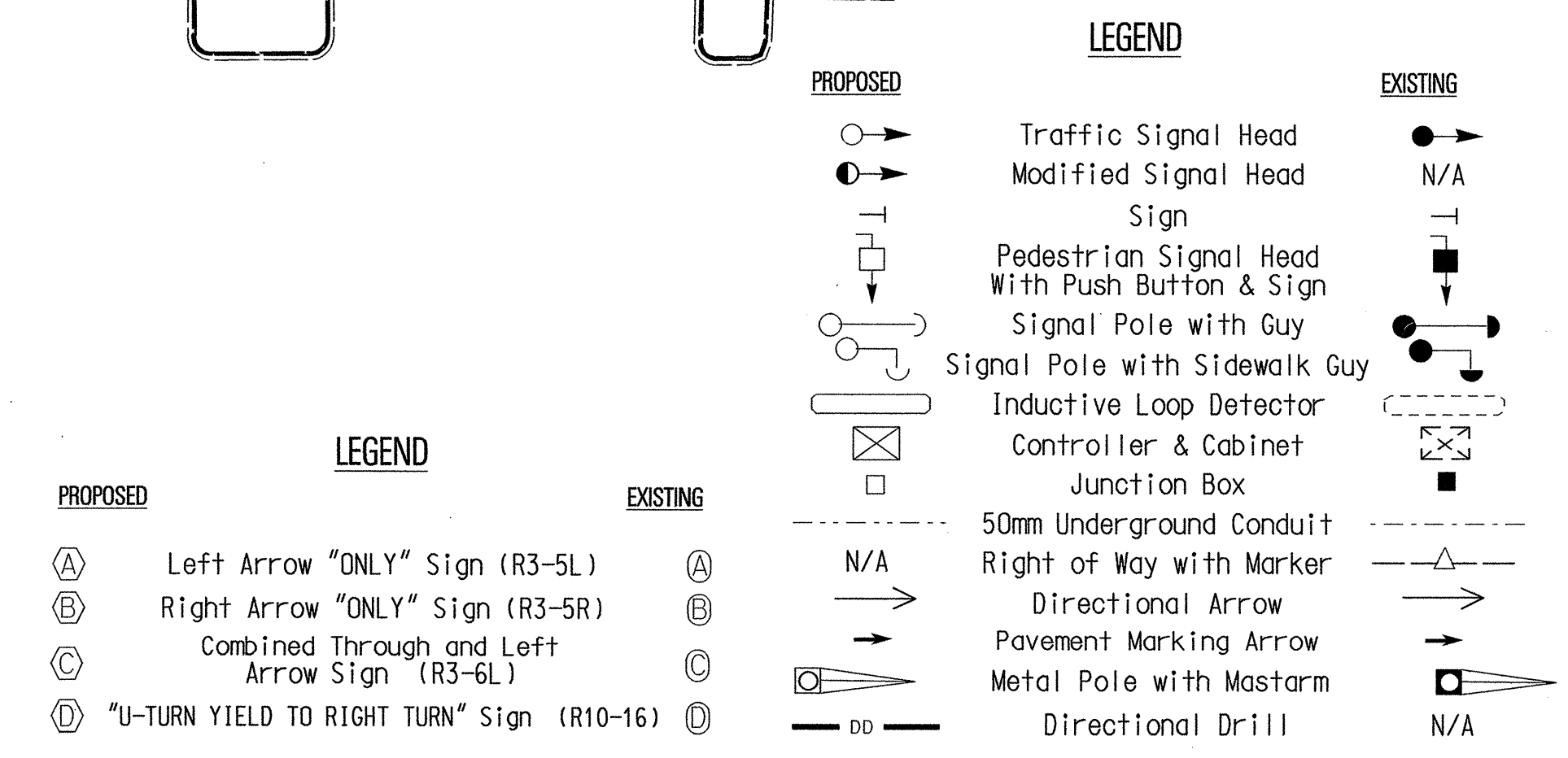


2070L TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1 *	7	12	7	7	7	12
Extension 1 *	1.0	6.0	2.0	1.0	1.0	6.0
Max Green 1 *	15	100	20	30	15	100
Yellow Clearance	4.0	4.7	4.0	4.0	4.0	4.7
Red Clearance	3.0	1.5	3.0	3.0	3.0	1.5
Walk 1 *	-	4	-	-	-	-
Don't Walk 1	-	18	-	-	-	-
Seconds Per Actuation *	-	1.5	-	-	-	1.5
Max Variable Initial *	-	34	-	-	-	34
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	30	-	-	-	30
Minimum Gap	-	3.0	-	-	-	3.0
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW
Dual Entry	-	-	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON	ON	ON

2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (M)	TURNS	DISTANCE FROM STOPBAR (M)	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
1A	1.8X18	2-4-2	0	Y	1	Y	Y	-	-	-	-	Y
1B	1.8X12	2-4-2	0	-	1	Y	Y	-	-	-	15	Y
2A	1.8X1.8	5	90	Y	2	Y	Y	-	-	-	-	Y
2B	1.8X1.8	5	90	-	2	Y	Y	-	-	-	-	Y
3A	1.8X12	2-4-2	0	-	3	Y	Y	-	-	-	-	Y
4A	1.8X18	2-4-2	0	-	4	Y	Y	-	-	-	-	Y
4B	1.8X18	2-4-2	0	-	4	Y	Y	-	-	-	-	Y
5A	1.8X18	2-4-2	0	Y	5	Y	Y	-	-	-	-	Y
5B	1.8X18	2-4-2	0	Y	5	Y	Y	-	-	-	-	Y
5C	1.8X18	2-4-2	0	-	5	Y	Y	-	-	15	-	Y
6A	1.8X1.8	5	90	Y	6	Y	Y	-	-	-	-	Y
6B	1.8X1.8	5	90	-	6	Y	Y	-	-	-	-	Y



\* 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.

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Signal Upgrade Final Design

SR 1409 (Military Cutoff Road) at Forum Shopping Center and Mayfaire Access F

Division 3 New Hanover County Wilmington

Prepared for: [Logo]  
 122 N. McDowell St., Raleigh, NC 27603

PLAN DATE: Sept 2003 REVIEWED BY: L. M. Eddins  
 PREPARED BY: H. M. Surti REVIEWED BY: S. S. Asefaia

SCALE: 1:500

SEAL: [Signature]  
 DATE: 1/7/04  
 SIG. INVENTORY NO. 03-0895