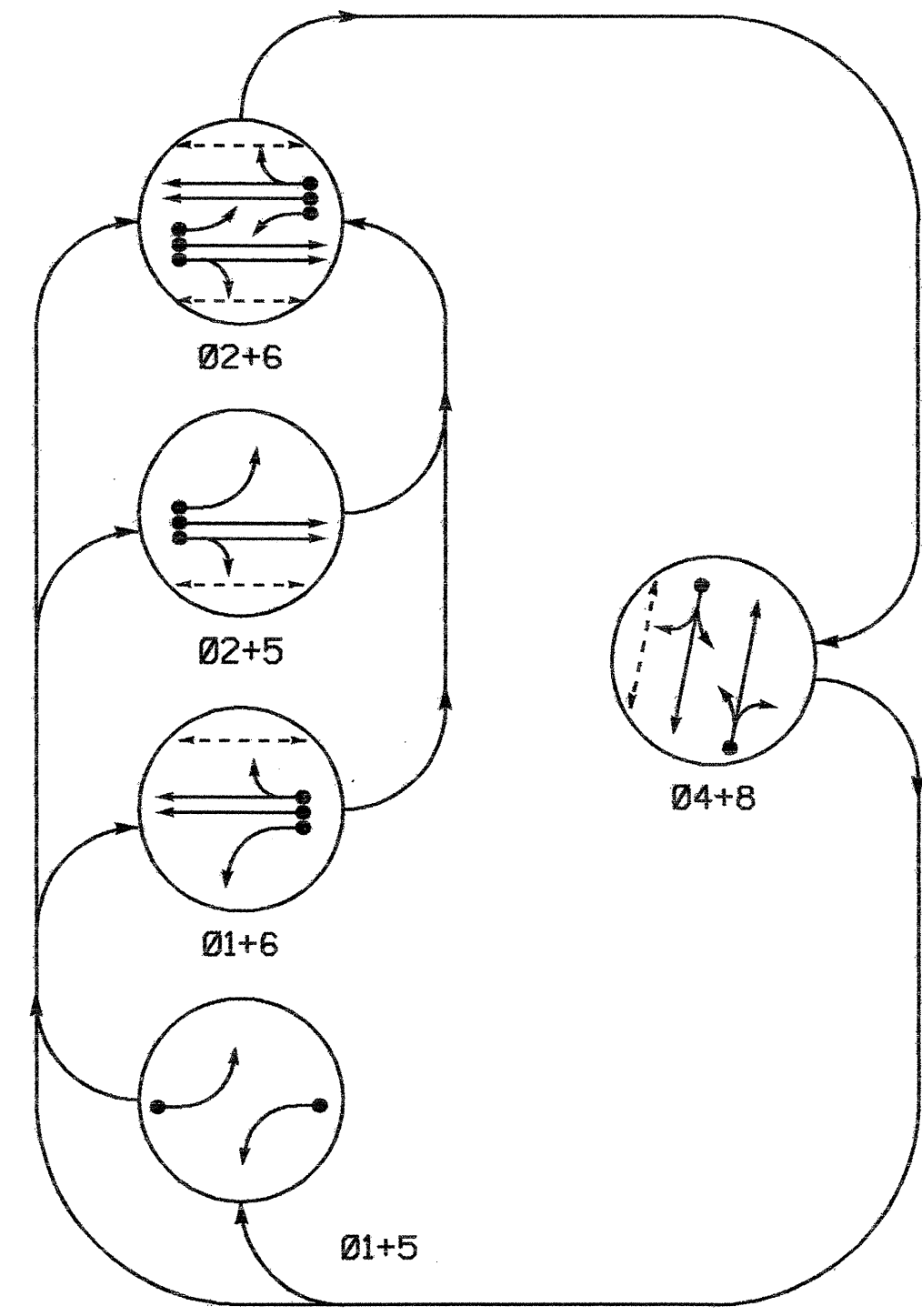


PHASING DIAGRAM



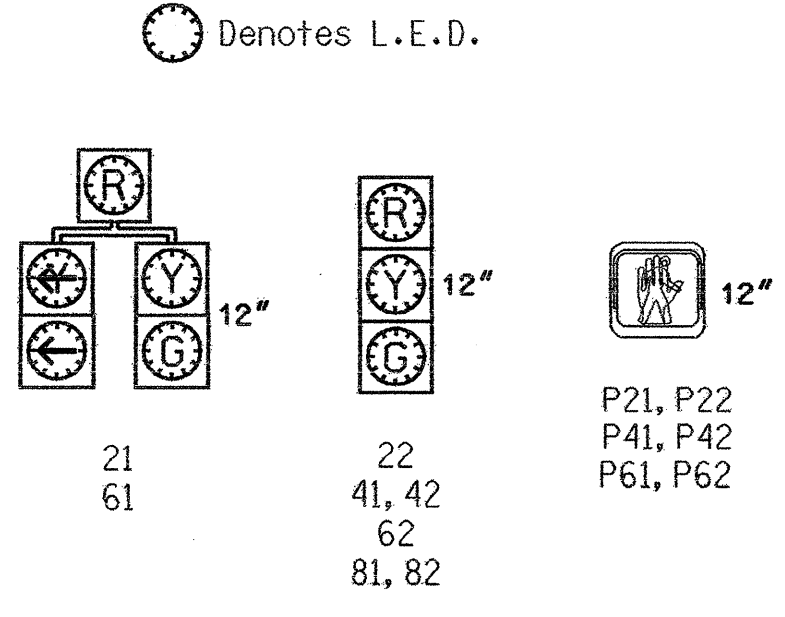
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE					FLASH
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 4+8	
21	R	R	G	G	R	Y
22	R	R	G	G	R	Y
41, 42	R	R	R	R	G	R
61	R	G	R	G	R	Y
62	R	G	R	G	R	Y
81, 82	R	R	R	R	G	R
P21, P22	DW	DW	W	W	DW	DRK
P41, P42	DW	DW	DW	DW	W	DRK
P61, P62	DW	W	DW	W	DW	DRK

SIGNAL FACE I.D.



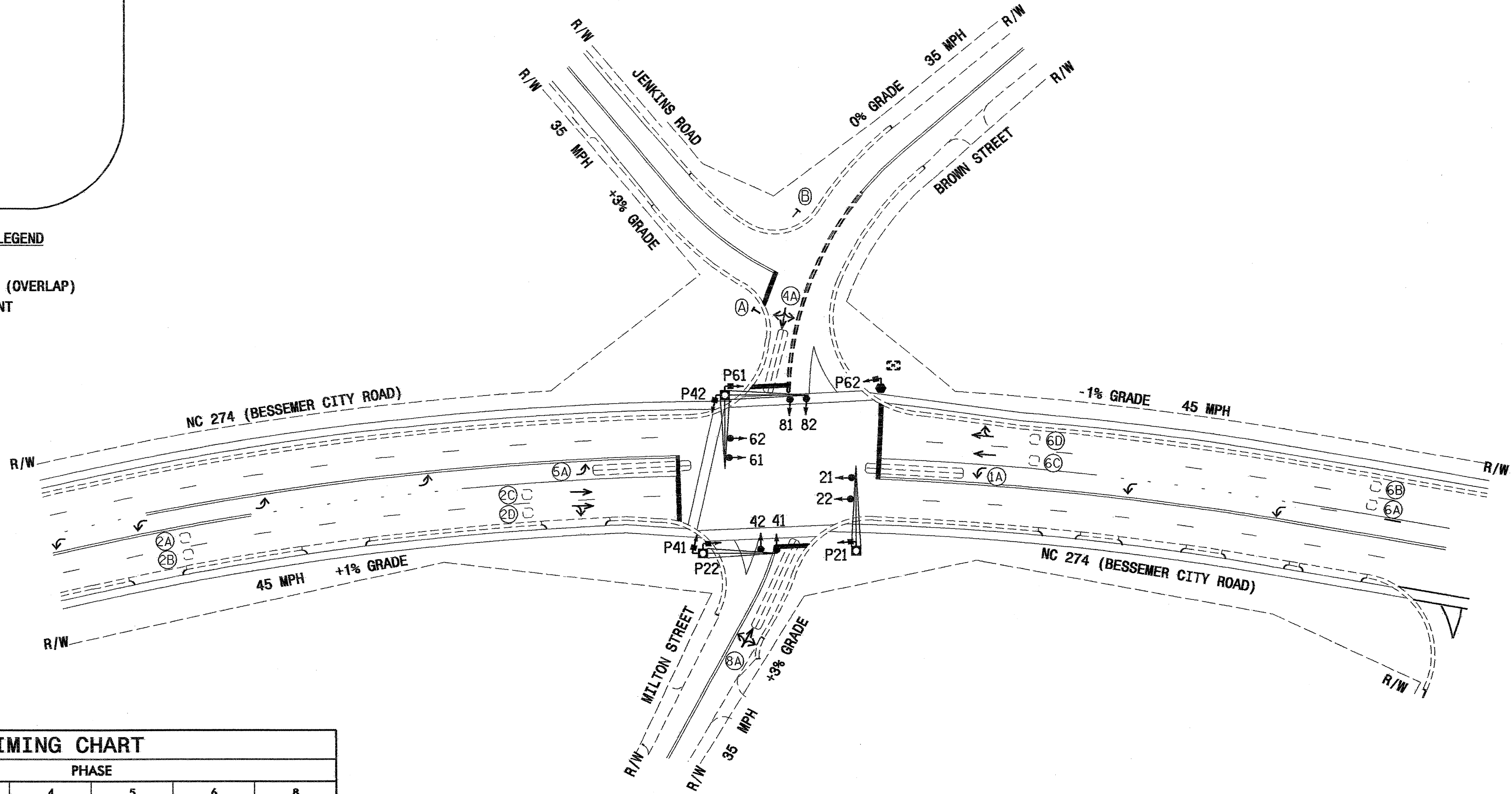
2070L LOOP & DETECTOR INSTALLATION

LOOP	INDUCTIVE LOOPS			DETECTOR PROGRAMMING								
	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	EXISTING	EXISTING	EXISTING	-	1	Y	Y	-	-	15	-	-
2A, 2B	EXISTING	EXISTING	EXISTING	-	2	Y	Y	-	1.8	-	-	-
2C, 2D	EXISTING	EXISTING	EXISTING	-	2	Y	Y	-	-	-	-	-
4A	EXISTING	EXISTING	EXISTING	-	4	Y	Y	-	-	5	-	-
5A	EXISTING	EXISTING	EXISTING	-	5	Y	Y	-	-	15	-	-
6A, 6B	EXISTING	EXISTING	EXISTING	-	6	Y	Y	-	1.8	-	-	-
6C, 6D	EXISTING	EXISTING	EXISTING	-	6	Y	Y	-	-	-	-	-
8A	EXISTING	EXISTING	EXISTING	-	8	Y	Y	-	-	5	-	-

5 Phase Fully Actuated (Gastonia City System)

NOTES

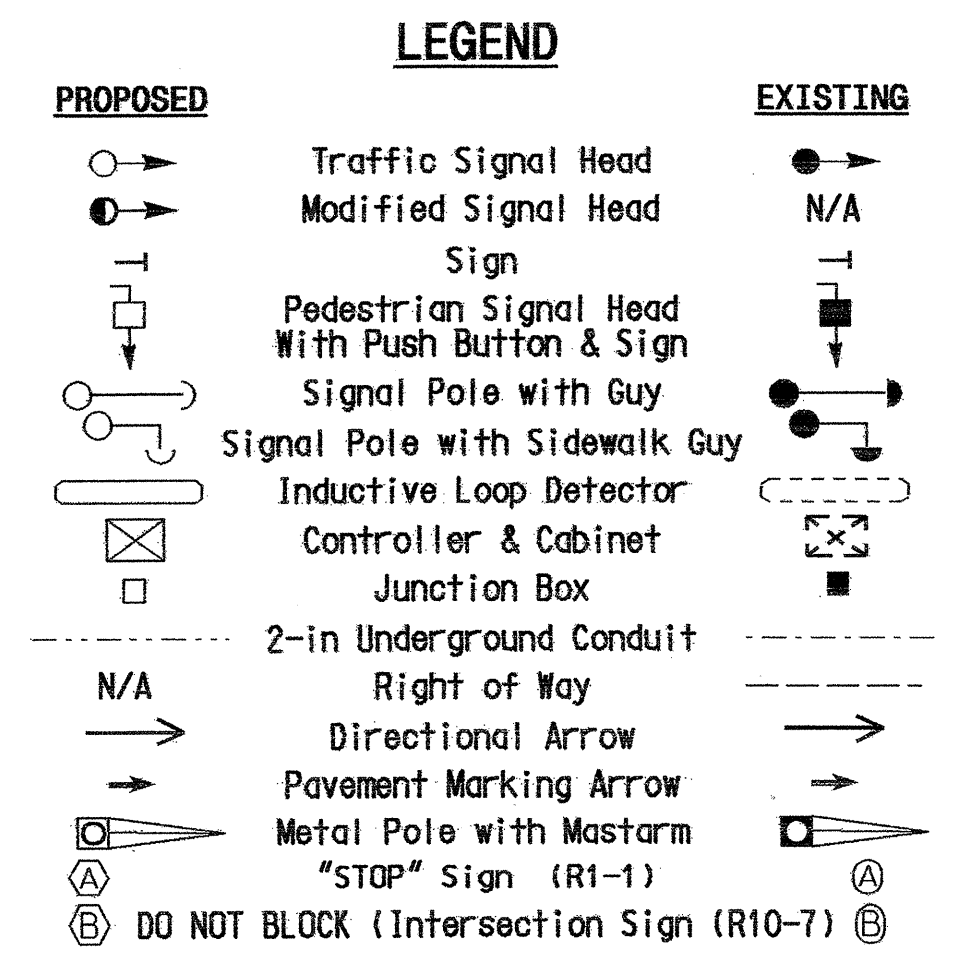
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Omit phase 1 during phase 2 on.
4. Omit phase 5 during phase 6 on.
5. Program controller to clear from phase 2+6 to phase 1 and/or 5 by progressing through phase 4+8 (see Electrical Details).
6. Set all detector units to presence mode.
7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
8. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
9. Pavement markings are existing.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
11. City system data: Controller Asset #: 0264.
12. All work on this signal will be done and paid for under TIP Project U-2408. This plan is only to show that this intersection is part of the Gastonia City Signal System and some minor changes to the timing chart.



2070L TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1*	7	12	7	7	12	7
Extension 1*	1.0	2.0	2.0	1.0	2.0	1.0
Max Green 1*	15	45	25	15	45	25
Yellow Clearance	4.0	4.7	4.0	4.0	4.7	4.0
Red Clearance	2.0	1.5	2.0	2.4	1.5	2.0
Walk 1*	-	4	4	-	4	-
Don't Walk 1	-	14	15	-	16	-
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	-	-	ON	-	-	ON
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.



Signal Upgrade

Prepared in the Office of: **NC 274 (Bessemmer City Road) at Brown St./Milton St.**

Division 12 Gaston County Gastonia

PLAN DATE: February 2005 REVIEWED BY: D.Y. Ishak

PREPARED BY: L. Blount REVIEWED BY:

122 N. McDowell St., Raleigh, NC 27603

SCALE: 1" = 50'

REVISIONS: INIT. DATE

SIGNATURE: DATE

STG. INVENTORY NO. 12-0264

SEAL: NORTH CAROLINA ENGINEER OF TRANSPORTATION

12-MAY-2005 09:13 w:\p0264\18-unit1\work\p0264\18-unit1\p0264\18-unit1.dgn