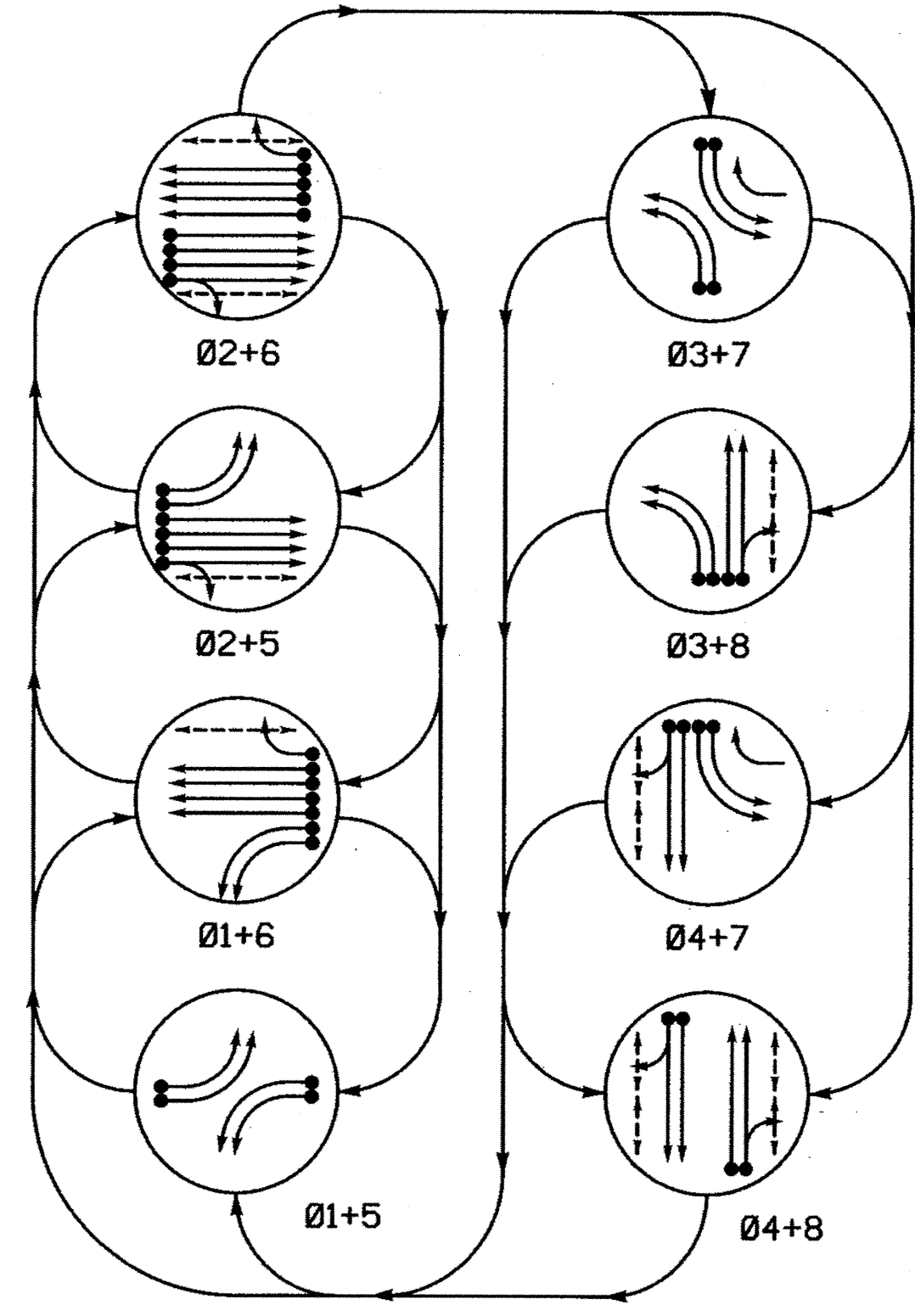


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

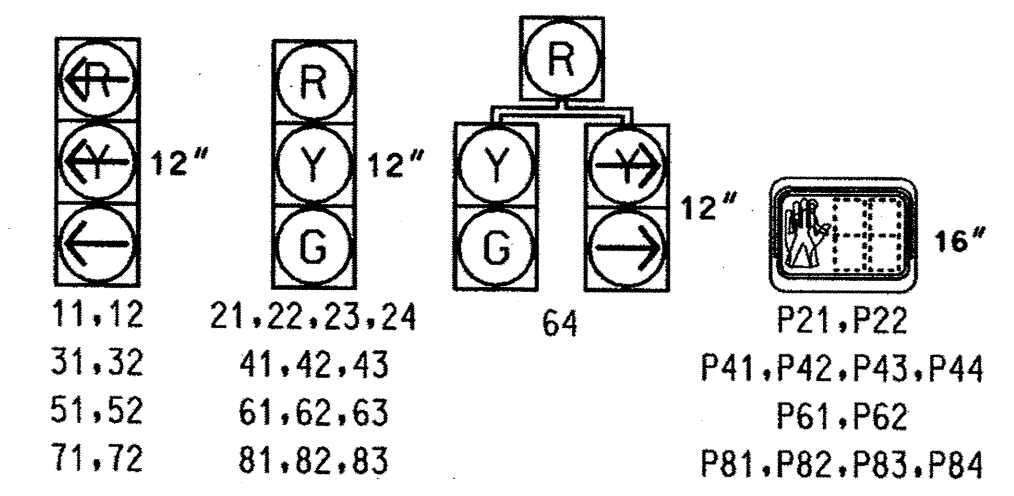
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE							
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 3 + 7	Ø 3 + 8	Ø 4 + 7	Ø 4 + 8
21,22,23,24	R	R	G	G	R	R	R	R
31,32	R	R	R	R	R	R	R	R
41,42,43	R	R	R	R	R	R	G	G
51,52	R	R	R	R	R	R	R	R
61,62,63	R	G	R	G	R	R	R	R
64	R	G	R	G	R	R	R	R
71,72	R	R	R	R	R	R	R	R
81,82,83	R	R	R	R	R	G	R	G
P21,P22	DW	DW	W	W	DW	DW	DW	DRK
P41,P42	DW	DW	DW	DW	DW	DW	W	DRK
P43,P44	DW	DW	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DW	DW	DRK
P81,P82	DW	DW	DW	DW	DW	DW	W	DRK
P83,P84	DW	DW	DW	DW	DW	DW	W	DRK

W - Walk
DW - Don't Walk
DRK - Dark

SIGNAL FACE I.D.

All Heads L.E.D.



SE-PAC 2070 LOOP & DETECTOR UNIT INSTALLATION CHART

INDUCTIVE LOOPS						DETECTOR PROGRAMMING																	
						ASSIGNED PHASE	TIMING		OPERATION MODE										SWITCH	SYSTEM LOOPS	NEW	EXISTING	STATUS
									0	1	2	3	4	5	6	7	AND						
LOOP NO.	SIZE (ft)	TURNS	DIST. FROM STOPBAR (ft)	NEW	EXISTING	DELAY	EXTEND (STRETCH)	VEHICLE	PEDESTRIAN	1 CALL	STOP A	STOP B	PROX/PER	PROX/PER	THROUGH								
1A	6x40	2-4-2	0	X	-	1	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	-	X			
1B	6x40	2-4-2	0	X	-	1	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	-	X			
2A,2B,2C,2D	6x6	6	300	X	-	2	- SEC.	1.6 SEC.	X	-	-	-	-	-	-	-	-	-	-	X			
2E,2F,2G,2H	6x6	4	90	X	-	2	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	-	X			
3A,3B	6x40	2-4-2	0	X	-	3	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	-	X			
4A,4B	6x40	2-4-2	0	X	-	4	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	-	X			
5A	6x40	2-4-2	0	X	-	5	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	-	X			
5B	6x40	2-4-2	0	X	-	5	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	-	X			
6A,6B,6C,6D	6x6	6	300	X	-	6	- SEC.	1.6 SEC.	X	-	-	-	-	-	-	-	-	-	-	X			
6E,6F,6G,6H	6x6	4	90	X	-	6	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	-	X			
6J	6x6	4	0	X	-	6	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	-	X			
7A,7B	6x40	2-4-2	0	X	-	7	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	-	X			
8A,8B	6x40	2-4-2	0	X	-	8	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	-	X			

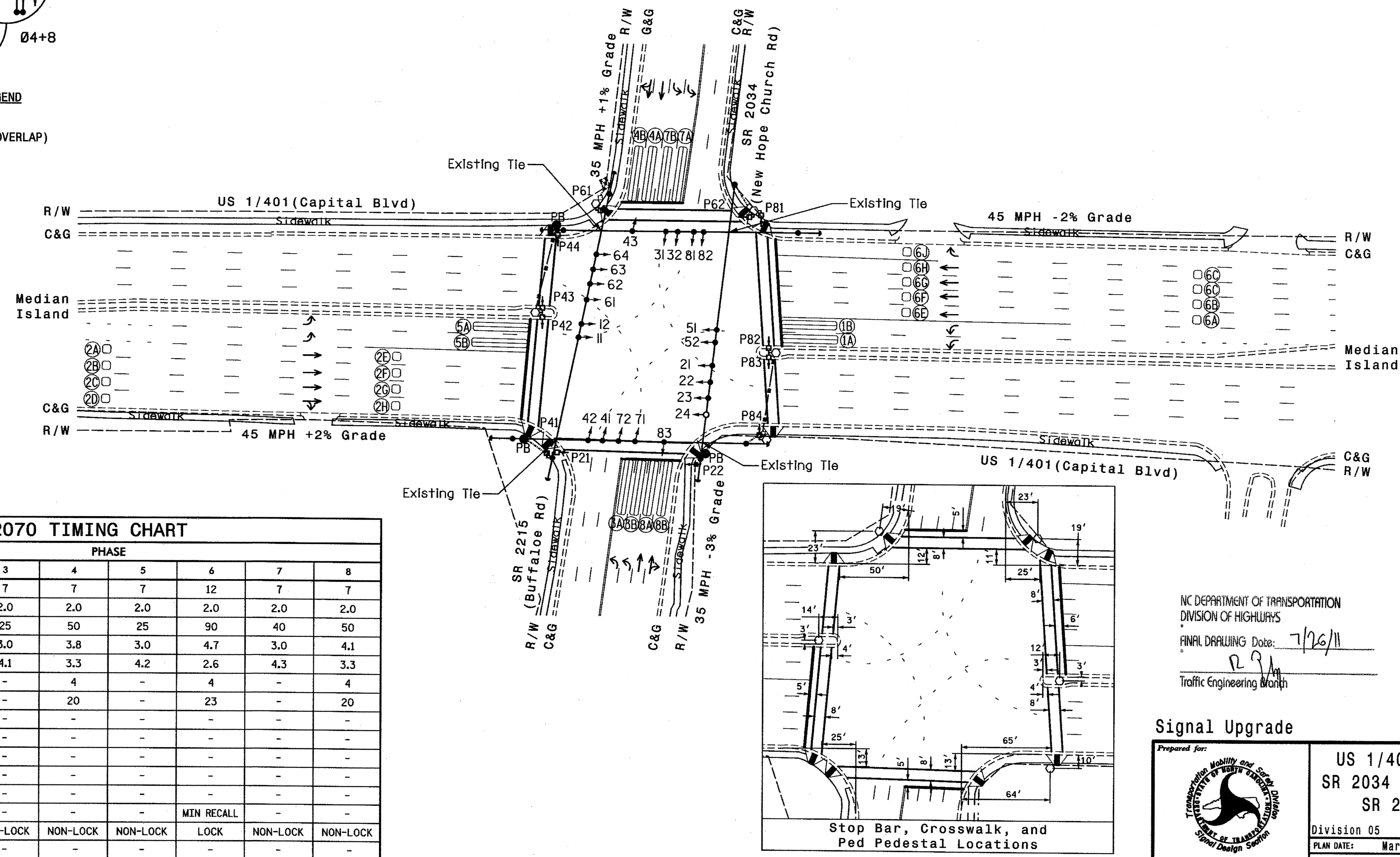
8 Phase
Fully Actuated
(Raleigh City Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated July 2006 and "Standard Specifications for Roads and Structures" dated July 2006.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

SE-PAC 2070 TIMING CHART								
FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green *	7	12	7	7	7	12	7	7
Passage Gap *	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Maximum Green *	35	90	25	50	25	90	40	50
Yellow Change	3.0	4.3	3.0	3.8	3.0	4.7	3.0	4.1
Red Clear	4.4	2.8	4.1	3.3	4.2	2.6	4.3	3.3
Walk *	-	4	-	4	-	4	-	4
Pedestrian Clear	-	24	-	20	-	23	-	20
Added Initial *	-	-	-	-	-	-	-	-
Maximum Initial *	-	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-	-
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Vehicle Call Memory	NON-LOCK	LOCK	NON-LOCK	NON-LOCK	NON-LOCK	LOCK	NON-LOCK	NON-LOCK
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.



LEGEND	
PROPOSED	EXISTING

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
FINAL DRAWING Date: 7/26/11
Traffic Engineering Branch

Signal Upgrade

Prepared for:

750 N. Greenfield Pkwy, Garner, NC 27525

US 1/401 (Capital Blvd) at
SR 2034 (New Hope Church Rd) /
SR 2215 (Buffaloe Rd)

Division 05 Wake County Raleigh

PLAN DATE: March 2011 REVIEWED BY: N.M. Rodevick

PREPARED BY: T.R. Terrell REVIEWED BY:

REVISIONS

SCALE 0 50
1"=50'

SEAL

DATE 7-26-11

SIG. INVENTORY NO. 05-1198