

8 Phase Fully Actuated (Wilmington 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.
- Disable Backup Protect for phase 2.
- 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.
- In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- The Engineer will determine the hours of use for each phasing plan.
- Signal system data: Controller Asset #0346.

2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CADD
					PHASE	CALLING	EXTENSION	FULL TIME DELAY				
1A	6X60	40	2-4-2	-	1	Y	Y	-	-	10*	-	-
2A	6X6	300	5	-	2	Y	Y	-	-	3	-	-
2B	6X6	300	5	-	2	Y	Y	-	-	-	-	-
3A	6X40	0	2-4-2	-	3	Y	Y	-	-	3	-	-
3B	6X40	0	2-4-2	-	3	Y	Y	-	-	-	-	-
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	-	-	-
4B	6X40	0	2-4-2	-	4	Y	Y	-	-	-	-	-
5A	6X60	EXIST	2-4-2	-	5	Y	Y	-	-	10*	-	-
6A	6X6	300	5	-	6	Y	Y	-	-	-	-	-
6B	6X6	300	5	-	6	Y	Y	-	-	-	-	-
7A	6X40	0	2-4-2	-	7	Y	Y	-	-	-	-	-
8A	6X40	0	2-4-2	-	8	Y	Y	-	-	5	-	-

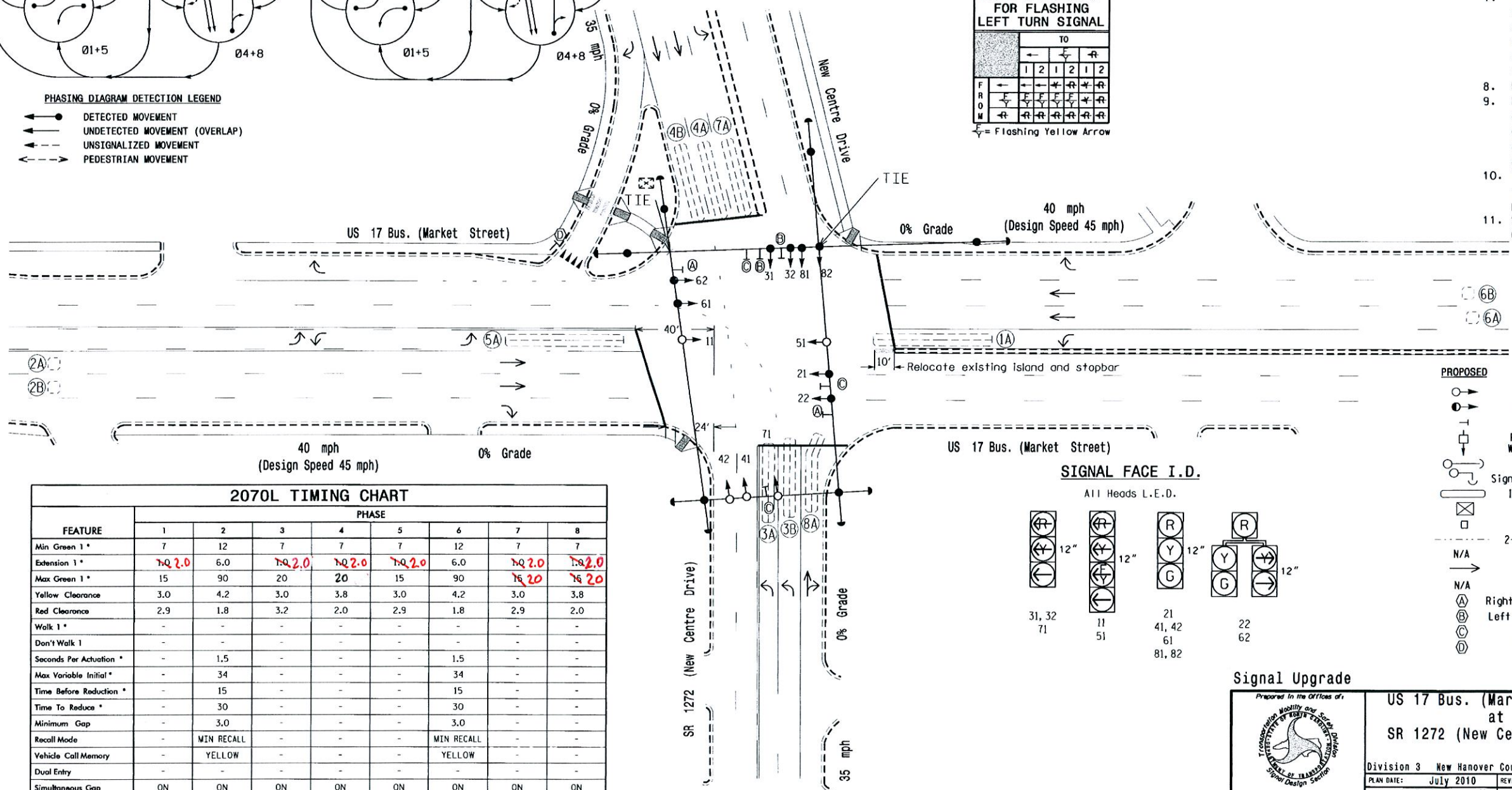
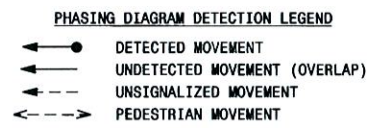
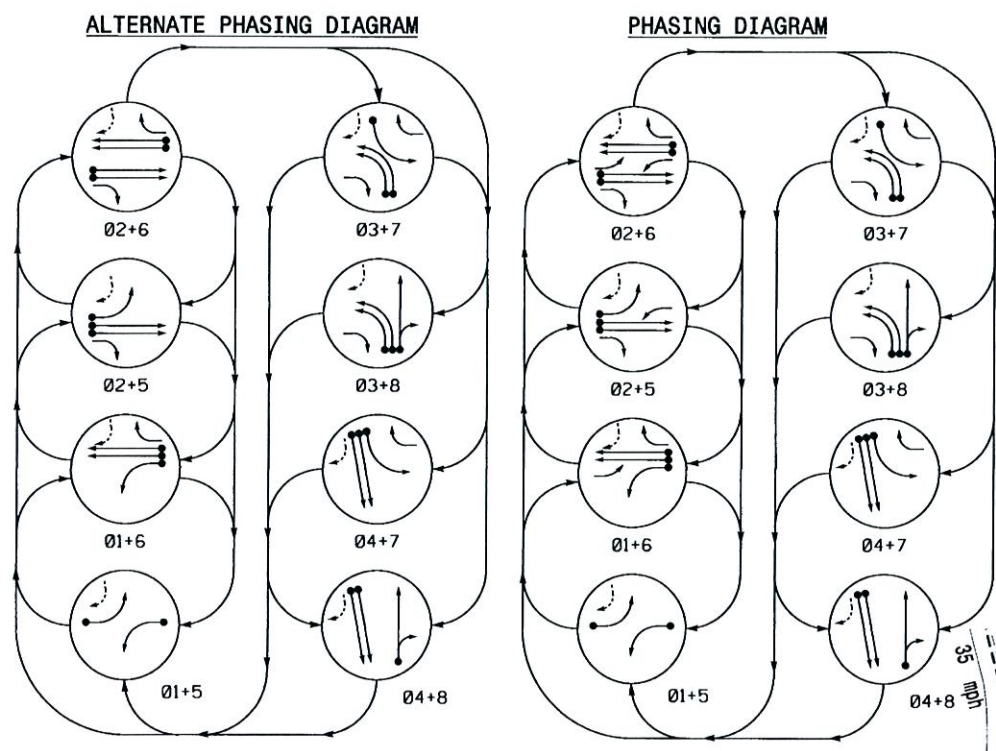
\* Disable Delay During Alternate Phasing Operation.  
\*\* Disable phase 2/6 Call for Loops 1A and 5A During Alternate Phasing Operation.

SIGNAL FACE	PHASE								F
	01+5	02+6	03+7	04+8	05+9	06+0	07+1	08+2	
11	-	-	-	-	-	-	-	-	-
21	R	R	G	G	R	R	R	R	Y
22	R	R	G	G	R	R	R	R	Y
31,32	R	R	R	R	R	R	R	R	-
41,42	R	R	R	R	R	R	G	G	R
51	-	-	-	-	-	-	-	-	-
61	R	G	R	G	R	R	R	R	Y
62	R	G	R	G	R	R	R	R	Y
71	-	-	-	-	-	-	-	-	-
81,82	R	R	R	R	R	G	G	G	R

SIGNAL FACE	PHASE								F
	01+5	02+6	03+7	04+8	05+9	06+0	07+1	08+2	
11	-	-	-	-	-	-	-	-	-
21	R	R	G	G	R	R	R	R	Y
22	R	R	G	G	R	R	R	R	Y
31,32	R	R	R	R	R	R	R	R	-
41,42	R	R	R	R	R	R	G	G	R
51	-	-	-	-	-	-	-	-	-
61	R	G	R	G	R	R	R	R	Y
62	R	G	R	G	R	R	R	R	Y
71	-	-	-	-	-	-	-	-	-
81,82	R	R	R	R	R	G	G	G	R

STANDARD SIGNAL FACE CLEARANCES FOR FLASHING LEFT TURN SIGNAL		TO			
		1	2	1	2
FROM	1	-	-	-	-
	2	-	-	-	-
FROM	1	-	-	-	-
	2	-	-	-	-

Flashing Yellow Arrow



FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1 *	7	12	7	7	7	12	7	7
Extension 1 *	1.0 2.0	6.0	1.0 2.0	1.0 2.0	1.0 2.0	6.0	1.0 2.0	1.0 2.0
Max Green 1 *	15	90	20	20	15	90	16 20	16 20
Yellow Clearance	3.0	4.2	3.0	3.8	3.0	4.2	3.0	3.8
Red Clearance	2.9	1.8	3.2	2.0	2.9	1.8	2.9	2.0
Walk 1 *	-	-	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-	-	-
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	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

US 17 Bus. (Market Street) at SR 1272 (New Centre Drive)

Division 3 New Hanover County Wilmington

PLAN DATE: July 2010 REVIEWED BY: I. O. Umuzurike

PREPARED BY: I. O. Umuzurike REVIEWED BY:

REVISIONS: 1. DETECTORS 2. EXTENSION 3. MAY TIMES

SCALE: 1"=30'

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER 29904

SIG. INVENTORY NO. 03-0346