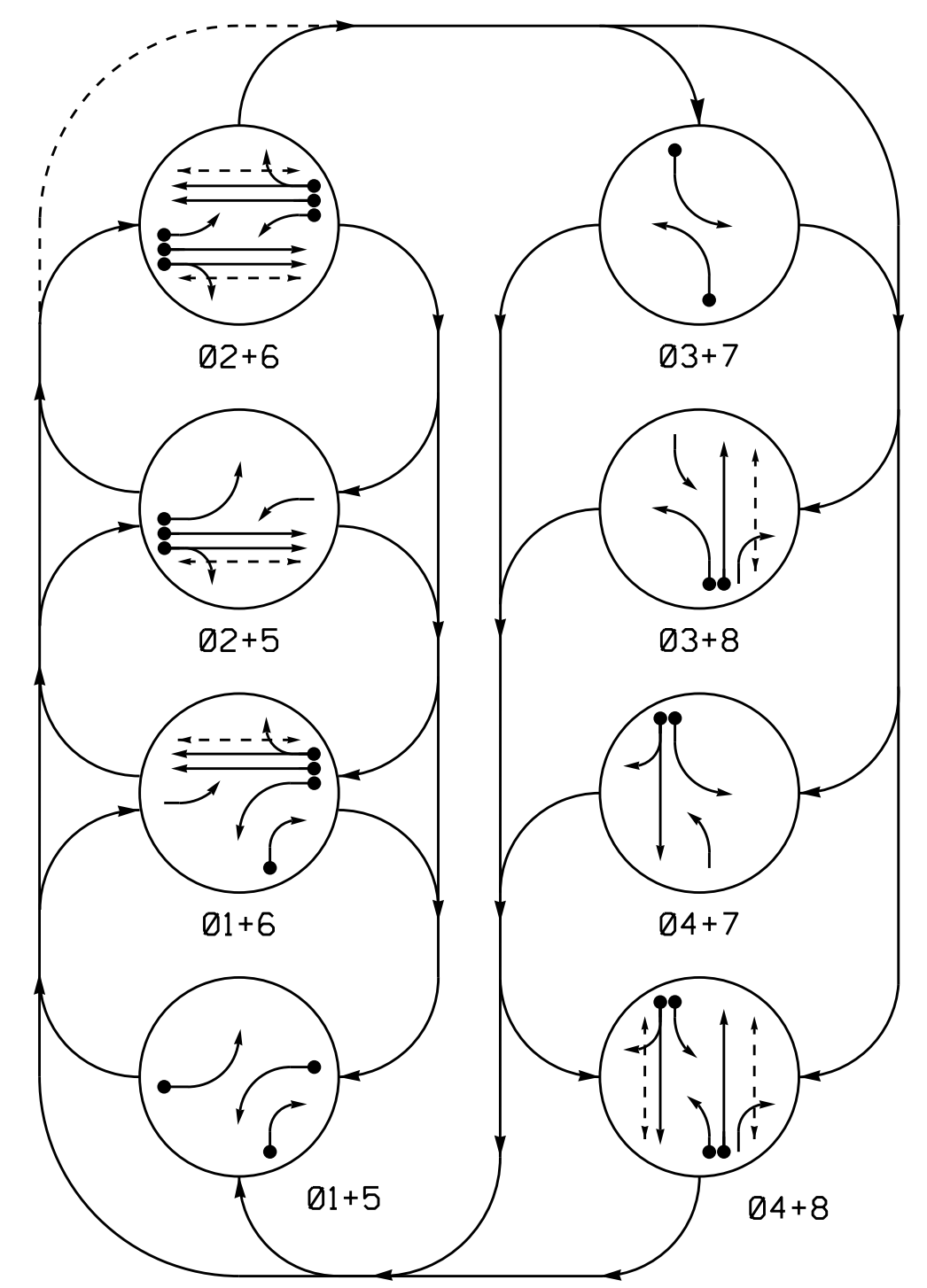


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11	---	---	---	---	---	---	---	---
21, 22	R	R	G	G	R	R	R	Y
31	---	---	---	---	---	---	---	---
41, 42	R	R	R	R	R	R	G	G
51	---	---	---	---	---	---	---	---
61, 62	R	G	R	G	R	R	R	Y
71	---	---	---	---	---	---	---	---
81	R	R	R	R	R	G	G	R
82	---	---	---	---	---	---	---	---
P21, P22	DW	DW	W	W	DW	DW	DW	DRK
P61, P62	DW	W	DW	W	DW	DW	DW	DRK
P81, P82	DW	DW	DW	DW	W	DW	W	DRK

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

SCHOOL FLASHER TABLE OF OPERATION

SIGNAL FACE	INTERVAL	
	1	2
101, 103	ON	OFF
102, 104	OFF	ON

ACCESSIBLE PEDESTRIAN SIGNAL OPERATION

SIGNAL FACE	VOICE	TONES	INTERVAL		SPEECH MESSAGE	
			Walk	Flashing Don't Walk / Don't Walk	Walk sign is on to cross Montlieu.	Wait. Wait to cross North College.
P21	X	-	Walk	Flashing Don't Walk / Don't Walk	Montlieu. Walk sign is on to cross Montlieu.	Wait. Wait to cross North College.
P22	-	X	Walk	Flashing Don't Walk / Don't Walk	(Rapid Ticks)	(Rapid Ticks)
P61	-	X	Walk	Flashing Don't Walk / Don't Walk	(Rapid Ticks)	(Rapid Ticks)
P62	-	X	Walk	Flashing Don't Walk / Don't Walk	(Rapid Ticks)	(Rapid Ticks)
P81	-	X	Walk	Flashing Don't Walk / Don't Walk	(Rapid Ticks)	(Rapid Ticks)
P82	X	-	Walk	Flashing Don't Walk / Don't Walk	North College. Walk sign is on to cross North College.	Wait. Wait to cross North College.

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

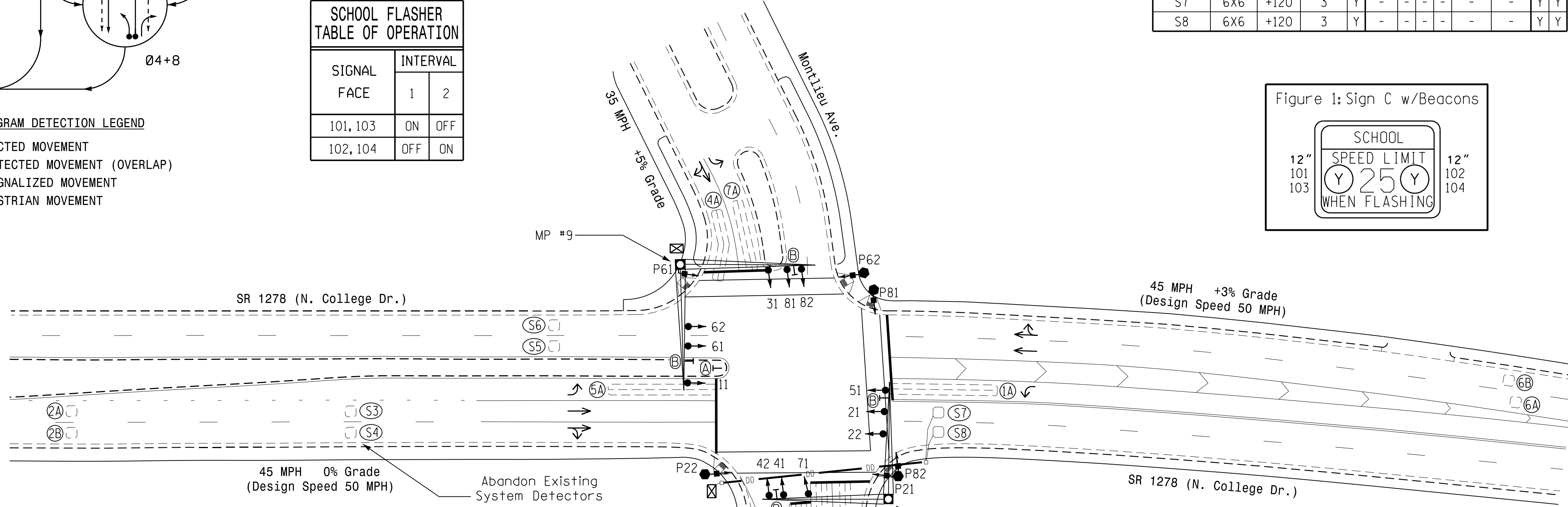
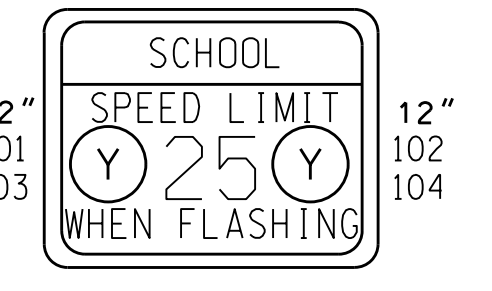
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	STRETCH DELAY			
1A	6X60	+5	2-4-2	-	1	Y	Y	-	15	-	Y
1B	6X60	0	2-4-2	-	1	Y	Y	-	3	-	Y
2A, 2B	6X6	355	EXIST	-	2	Y	Y	-	-	-	Y
3A	6X60	0	2-4-2	-	3	Y	Y	-	15	-	Y
4A	6X40	+5	2-4-2	-	4	Y	Y	-	10	-	Y
5A	6X60	0	2-4-2	-	5	Y	Y	-	15	-	Y
6A, 6B	6X6	355	EXIST	-	6	Y	Y	-	-	-	Y
7A	6X40	0	2-4-2	-	7	Y	Y	-	15	-	Y
8A	6X60	0	2-4-2	-	8	Y	Y	-	-	-	Y
S1	6X6	EXIST	EXIST	-	-	-	-	-	-	-	Y
S3	6X6	200	EXIST	-	ABANDON				-	-	Y
S4	6X6	200	EXIST	-	ABANDON				-	-	Y
S5	6X6	EXIST	EXIST	-	-	-	-	-	-	-	Y
S6	6X6	EXIST	EXIST	-	-	-	-	-	-	-	Y
S7	6X6	+120	3	Y	-	-	-	-	-	-	Y
S8	6X6	+120	3	Y	-	-	-	-	-	-	Y

8 Phase Fully Actuated (High Point Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- 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.
- Abandon existing system detectors S3 and S4.
- 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.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pavement markings are existing.
- The Division Traffic Engineer will determine the hours of use for the school warning beacons.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

Figure 1: Sign C w/Beacons

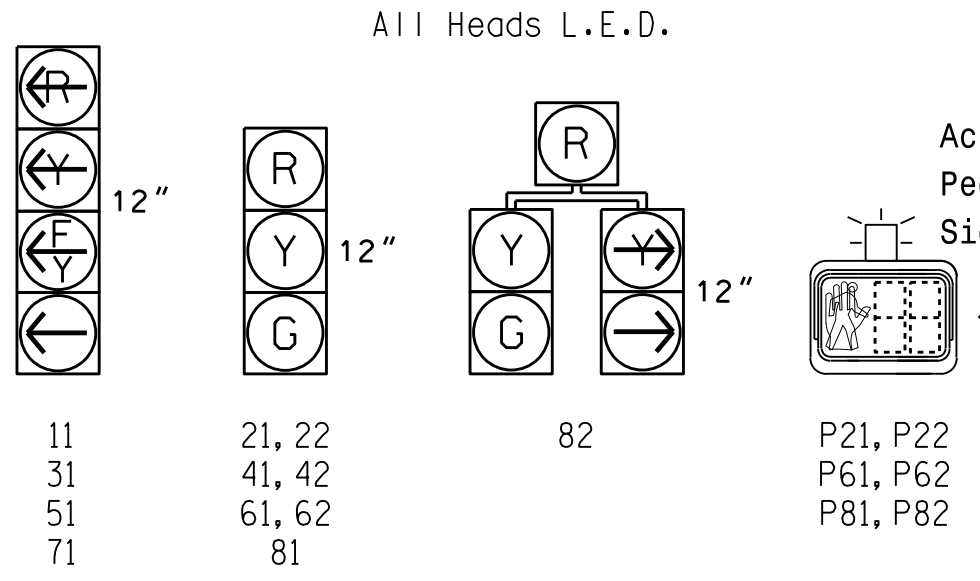


OASIS 2070 TIMING CHART

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	6.0	1.0	1.0	1.0	6.0	1.0	1.0
Max Green 1 *	15	90	15	25	15	90	15	25
Yellow Clearance	3.0	4.8	3.0	3.6	3.0	4.8	3.0	3.6
Red Clearance	2.4	1.3	3.2	2.7	2.6	1.3	3.3	2.7
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	7	-	-	-	7	-	7
Don't Walk 1	-	21	-	-	-	19	-	21
Seconds Per Actuation *	-	1.5	-	-	-	1.5	-	-
Max Variable Initial *	-	40	-	-	-	40	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	30	-	-	-	30	-	-
Minimum Gap	-	3.0	-	-	-	3.0	-	-
Recall Mode**	-	SOFT RECALL	-	-	-	SOFT RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW	-	-
Dual Entry	-	-	-	ON	-	-	-	ON
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.
** May be changed to Min Recall by Time of Day at discretion of City Traffic Engineer.

SIGNAL FACE I.D.



LEGEND

- | PROPOSED | EXISTING |
|---|----------|
| ○ Traffic Signal Head | ● N/A |
| ○ Modified Signal Head | ○ N/A |
| ○ Sign | ○ N/A |
| ○ Pedestrian Signal Head With Push Button & Sign | ○ N/A |
| ○ Signal Pole with Guy | ○ N/A |
| ○ Signal Pole with Sidewalk Guy | ○ N/A |
| ○ Inductive Loop Detector | ○ N/A |
| ○ Controller & Cabinet | ○ N/A |
| ○ Junction Box | ○ N/A |
| ○ 2-in Underground Conduit | ○ N/A |
| ○ Right of Way | ○ N/A |
| ○ Directional Arrow | ○ N/A |
| ○ Metal Pole with Mastarm | ○ N/A |
| ○ Type II Signal Pedestal | ○ N/A |
| ○ No U-Turn Sign (R3-4) | ○ N/A |
| ○ Street Name Sign (D3-1) | ○ N/A |
| ○ "SCHOOL SPEED LIMIT 25 WHEN FLASHING" Sign (S5-1) w/ Beacons (See Figure 1) | ○ N/A |

Signal Upgrade

Prepared In the Offices of:

SR 1278 (N. College Dr.) at SR 1471 (Montlieu Ave.)
 Division 7 Guilford County High Point
 PLAN DATE: December 2014 REVIEWED BY:
 PREPARED BY: R.N. Zinsler REVIEWED BY:
 SCALE: 1" = 40'
 3/6/2015
 SIG. INVENTORY NO. 07-0766

06-MAR-2015 15:16
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