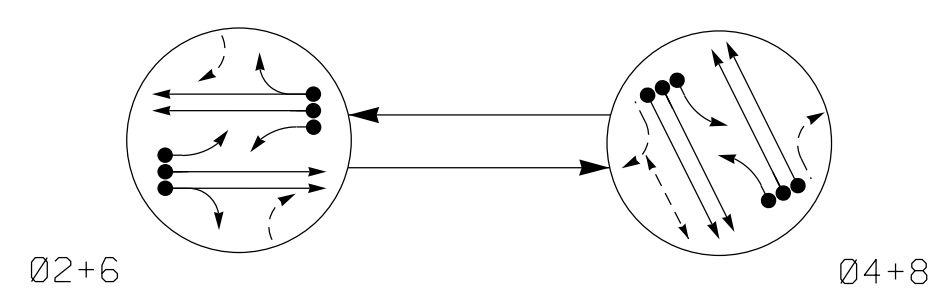


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- ◄ UNDETECTED MOVEMENT (OVERLAP)
- ⋯ UNSIGNALIZED MOVEMENT
- ⇄ PEDESTRIAN MOVEMENT

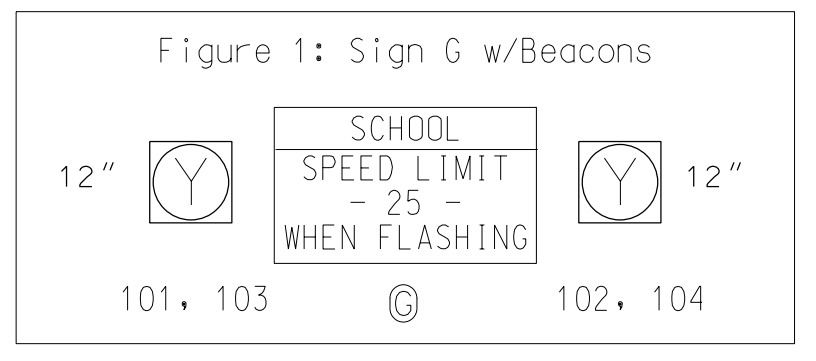
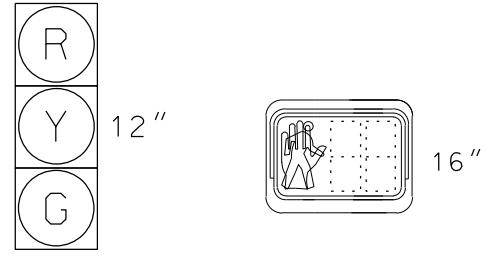


TABLE OF OPERATION

SIGNAL FACE	PHASE		
	02+6	04+8	FLUSH
21, 22, 23	G	R	Y
41, 42, 43	R	G	R
61, 62, 63	G	R	Y
81, 82, 83	R	G	R
P41, P42	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



21, 22, 23
41, 42, 43
61, 62, 63
81, 82, 83

P41, P42

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	FULL TIME DELAY	STRETCH TIME		
2A	6x6	355	6	-	2	Y	Y	-	-	-	Y
2B	6x6	355	6	-	2	Y	Y	-	-	-	Y
2C	6x40	0	2-4-2	-	2	Y	Y	Y	-	3	Y
4A	6x40	+5	2-4-2	-	4	Y	Y	-	-	-	Y
4B	6x40	+5	2-4-2	-	4	Y	Y	-	-	-	Y
4C	6x40	+5	2-4-2	-	4	Y	Y	-	-	-	Y
6A	6x6	300	6	-	6	Y	Y	-	-	-	Y
6B	6x6	300	6	-	6	Y	Y	-	-	-	Y
6C	6x40	+5	2-4-4	-	6	Y	Y	Y	-	3	Y
8A	6x40	+5	2-4-2	-	8	Y	Y	-	-	-	Y
8B	6x40	+5	2-4-2	-	8	Y	Y	-	-	-	Y
8C	6x40	+5	2-4-2	-	8	Y	Y	-	-	-	Y
S1	6x6	+250	EXIST	Y	SYS	-	-	-	-	-	Y
S2	6x6	+250	EXIST	Y	SYS	-	-	-	-	-	Y
S3	6x6	+250	4	-	SYS	-	-	-	-	-	Y
S4	6x6	+250	4	-	SYS	-	-	-	-	-	Y

2 Phase Fully Actuated (High Point Signal System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Set all detector units to presence mode.
4. 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.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Pavement markings are existing.
7. Omit "WALK" and flashing "DON'T walk" with no pedestrian calls.
8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
9. School flasher connected to system through this controller cabinet. See electrical and wiring diagrams.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
11. Program School Flasher to operate as directed by the Engineer.
12. The City Traffic Engineer will determine the hours of use for the school warning beacons.

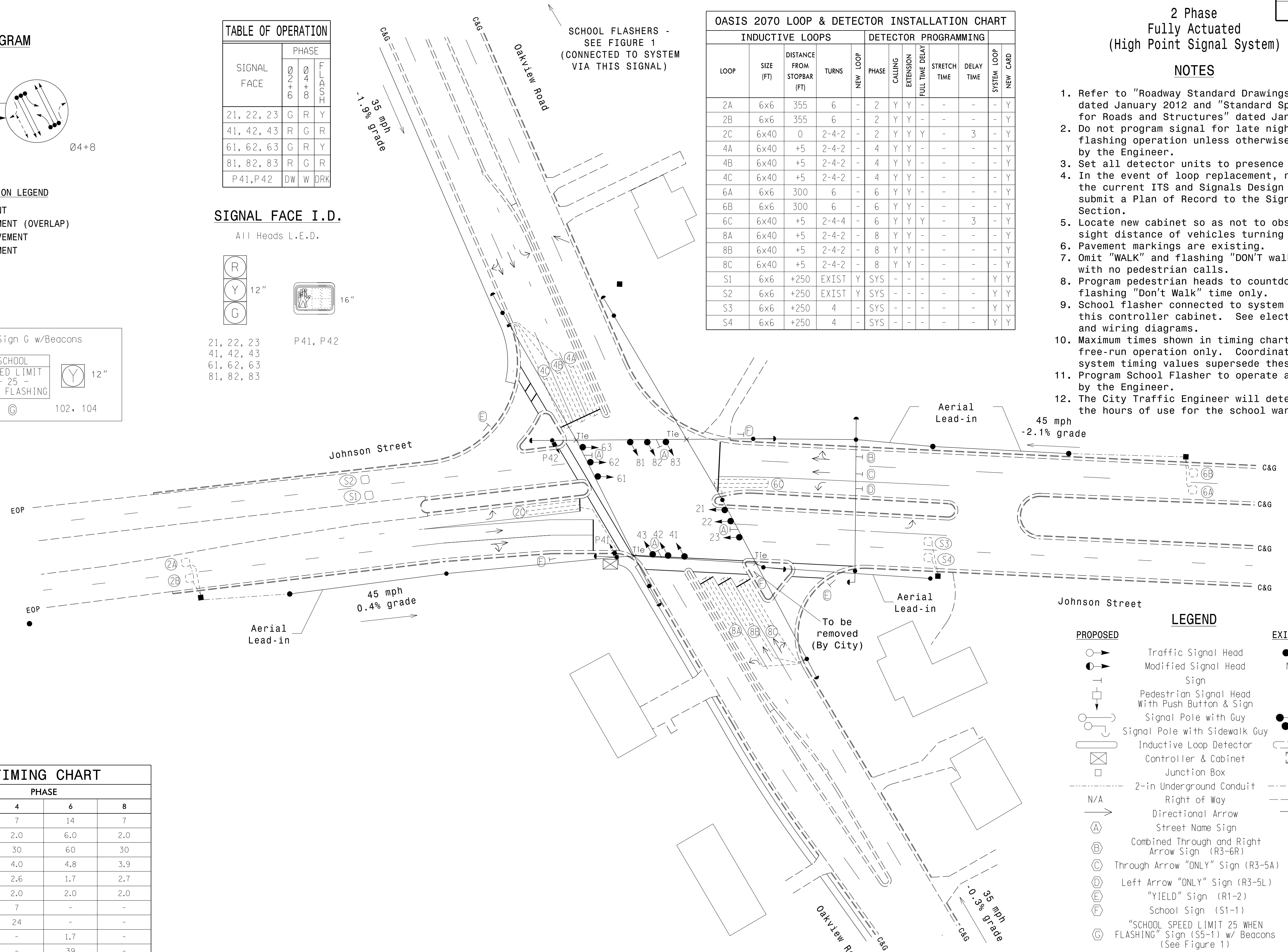
SCHOOL FLASHER TABLE OF OPERATION

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

OASIS 2070 TIMING CHART

FEATURE	PHASE			
	2	4	6	8
Min Green 1 *	14	7	14	7
Extension 1 *	6.0	2.0	6.0	2.0
Max Green 1 *	60	30	60	30
Yellow Clearance	4.5	4.0	4.8	3.9
Red Clearance	1.6	2.6	1.7	2.7
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	7	-	-
Don't Walk 1	-	24	-	-
Seconds Per Actuation *	1.7	-	1.7	-
Max Variable Initial *	39	-	39	-
Time Before Reduction *	15	-	15	-
Time To Reduce *	30	-	30	-
Minimum Gap	3.8	-	3.8	-
Recall Mode	MIN RECALL	-	MIN RECALL	-
Vehicle Call Memory	YELLOW	-	YELLOW	-
Dual Entry	-	ON	-	ON
Simultaneous Gap	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 |
|---|----------|
| ○ 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 |
| → N/A Right of Way | → N/A |
| → Directional Arrow | → N/A |
| (A) Street Name Sign | (A) N/A |
| (B) Combined Through and Right Arrow Sign (R3-6R) | (B) N/A |
| (C) Through Arrow "ONLY" Sign (R3-5A) | (C) N/A |
| (D) Left Arrow "ONLY" Sign (R3-5L) | (D) N/A |
| (E) "YIELD" Sign (R1-2) | (E) N/A |
| (F) School Sign (S1-1) | (F) N/A |
| (G) "SCHOOL SPEED LIMIT 25 WHEN FLASHING" Sign (S5-1) w/ Beacons (See Figure 1) | (G) N/A |

Signal Upgrade

Prepared for the Offices of:

Department of Transportation
211 S. Hamilton Street
High Point, NC 27260

Johnson Street at Oakview Road

Division 07 Guilford County High Point

PLAN DATE: April 2014 REVIEWED BY: MB Toth
PREPARED BY: IW Berdeau REVIEWED BY: LM Moon

REVISIONS: _____ INIT: _____ DATE: _____

SEAL

ENGINEER
MELISSA B. TOTH

SCALE
0 40
1"=40'

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

DocuSigned by:
Melissa B. Toth 6/5/2015
SIGNATURE DATE
SIC. INVENTORY NO. HP0803

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