PHASING DIAGRAM

Ø2+6   Ø8   Ø1+6

PHASING DIAGRAM DETECTION LEGEND

- ◄━━● DETECTED MOVEMENT
- ◄━━ UNDETECTED MOVEMENT (OVERLAP)
- ◄━ ─ UNSIGNALIZED MOVEMENT
- ◄─ ─► PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	Ø1+6	Ø2+6	Ø8	FLASH
11	←	F/Y	R	Y
21	R	G	R	Y
22	R	G	R/Y	Y
61, 62	G	G	R	Y
81	R	R	G	R
82	R/	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.

11

21
61, 62
81

22
82

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	-	1	Y	Y	-	-	15	-	Y
					6	Y	Y	Y	-	3	-	Y
1B	6X60	+5	2-4-2	-	1	Y	Y	-	-	15	-	Y
2A/S1	6X6	300	EXIST	-	2	Y	Y	-	-	-	Y	Y
2B/S2	6X6	300	EXIST	-	2	Y	Y	-	-	-	Y	Y
6A/S3	6X6	300	EXIST	-	6	Y	Y	-	-	-	Y	Y
6B/S4	6X6	300	EXIST	-	6	Y	Y	-	-	-	Y	Y
8A	6X60	+5	2-4-2	-	8	Y	Y	-	-	3	-	Y

3 Phase
Fully Actuated
Asheville 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. Phase 1 may be lagged.
4. Reposition existing signal head number 62.
5. Set all detector units to presence mode.
6. 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.
7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
8. Pavement markings are existing.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

Install new base-mounted cabinet on existing foundation.

SR 1369 (Old Country Home Rd.)

35 MPH   0% Grade

45 MPH   -4% Grade

NC 63 (Leicester Hwy.)

45 MPH   +3% Grade

NC 63 (Leicester Hwy.)

LEGEND

PROPOSED		EXISTING
◯━► Traffic Signal Head		●━►
◐━► Modified Signal Head		N/A
⊣ Sign		■
Pedestrian Signal Head With Push Button & Sign		■
◯━● Signal Pole with Guy		●━●
Signal Pole with Sidewalk Guy		●━●
▭ Inductive Loop Detector		⌐⌐⌐
⊠ Controller & Cabinet		⊠
▢ Junction Box		■
— ·· — 2-in Underground Conduit		
N/A Right of Way		─ ─ ─
━━► Directional Arrow		━━►

OASIS 2070 TIMING CHART

FEATURE	PHASE 1	2	6	8
Min Green 1 *	7	12	12	7
Extension 1 *	2.0	6.0	6.0	1.0
Max Green 1 *	15	120	120	30
Yellow Clearance	3.0	4.9	4.9	3.0
Red Clearance	2.1	1.3	1.3	2.8
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 *	-	45	45	-
Minimum Gap	-	3.0	3.0	-
Recall Mode	-	SOFT RECALL	SOFT RECALL	-
Vehicle Call Memory	-	YELLOW	YELLOW	-
Dual Entry	-	-	-	-
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.

Signal Upgrade