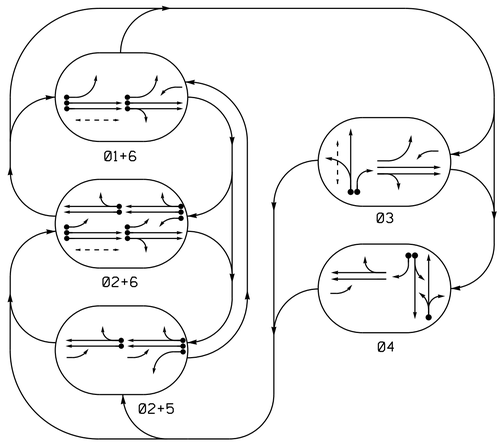
PROJECT REFERENCE NO.	SHEET NO.
I-0914BA	Sig. 10.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

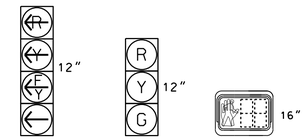
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE 02+5	02+6	01+6	03	04	FLASH
11	F Y	F Y	—	R	F Y	Y
12	F Y	F Y	—	—	R	Y
21, 22	G	G	R	R	R	Y
23, 24	G	G	R	R	G	Y
31, 32, 33	R	R	R	G	R	R
41, 42	R	R	R	R	G	R
43, 44	R	R	R	R	G	R
51	—	F Y	F Y	F Y	R	Y
61, 62	R	G	G	R	R	Y
63, 64	R	G	G	G	R	Y
P31, P32	DW	DW	DW	W	DW	DRK
P61, P62	DW	W	W	DW	DW	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



11, 12, 51 — 21, 22, 23, 24, 31, 32, 33, 41, 42, 43, 44, 61, 62, 63, 64 — P31, P32, P61, P62

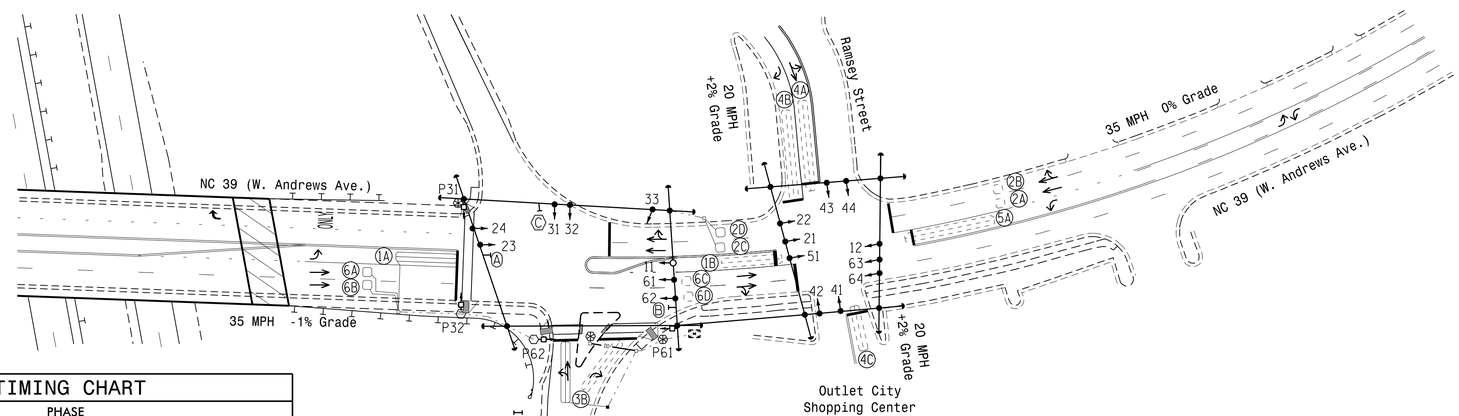
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
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	Y	1	Y	Y	-	-	15	-	-
					6	Y	Y	-	-	-	-	-
1B	6x40	+5	2-4-2	-	1	Y	Y	-	-	20	-	-
					6	Y	Y	-	-	-	-	-
2A, 2B	6X6	70	5	-	2	Y	Y	-	-	-	-	-
2C, 2D	6X6	70	5	Y	2	Y	Y	-	-	-	-	-
3A	6x40	0	2-4-2	Y	3	Y	Y	-	-	-	-	-
3B	6x40	0	2-4-2	-	3	Y	Y	-	-	15	-	-
4A	6x60	+5	2-4-2	-	4	Y	Y	-	-	3	-	-
4B	6x60	0	2-4-2	-	4	Y	Y	-	-	15	-	-
4C	6x30	+5	2-4-2	-	4	Y	Y	-	-	5	-	-
5A	6x60	+5	2-4-2	-	5	Y	Y	-	-	20	-	-
					2	Y	Y	-	-	-	-	-
6A, 6B	6X6	70	5	Y	6	Y	Y	-	-	-	-	-
6C, 6D	6X6	70	5	-	6	Y	Y	-	-	-	-	-

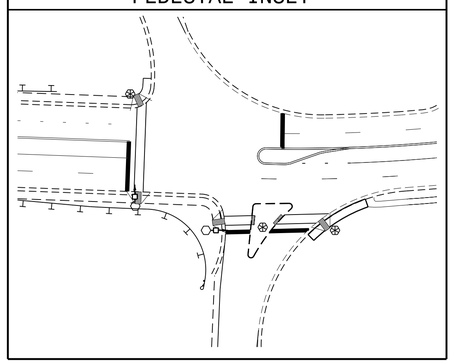
5 Phase
Fully Actuated
(Isolated)

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. The order of phase 1 and phase 5 may be reversed, but phase 1 and phase 5 shall not operate simultaneously.
4. The order of phase 3 and phase 4 may be reversed.
5. Reposition existing signal heads numbered 23, 24, 61, and 62.
6. Set all detector units to presence mode.
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. Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details.



PEDESTAL INSET



OASIS 2070 TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6
Min Green 1 *	7	10	7	7	7	10
Extension 1 *	2.0	3.0	2.0	2.0	1.0	3.0
Max Green 1 *	15	45	15	20	15	45
Yellow Clearance	3.0	3.9	3.7	3.0	3.0	3.9
Red Clearance	1.8	2.4	2.5	2.4	2.1	2.4
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	7	-	-	7
Don't Walk 1	-	-	14	-	-	17
Seconds Per Actuation *	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW
Dual Entry	-	-	-	-	-	-
Simultaneous Gap	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
	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	
	Type I Pushbutton Post	
	Type II Signal Pedestal	
N/A	Guardrail	
DD	Directional Drill	N/A
A	No Left Turn Sign (R3-2)	A
B	No Right Turn Sign (R3-1)	B
C	"TURNING VEHICLES" Yield "TO" Pedestrians Sign (R10-15)	C

Signal Upgrade - Final Design

Prepared in the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

NC 39 (W. Andrews Ave.) at I-85 NB/US 158 EB Ramps and Ramsey Street/Outlet City

Division 5 Vance County Henderson

PLAN DATE: September 2014 REVIEWED BY:
PREPARED BY: I. O. Umozurike REVIEWED BY:

SCALE 0 50 1"=50'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 026486 ENGINEER ROBERT J. ZELENKA

DocuSigned by: 10/27/2014
SIGNATURE DATE

SIG. INVENTORY NO. 05-1919

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