PROJECT REFERENCE NO.	SHEET NO.
U-5169	Sig. 17.0

PHASING DIAGRAM

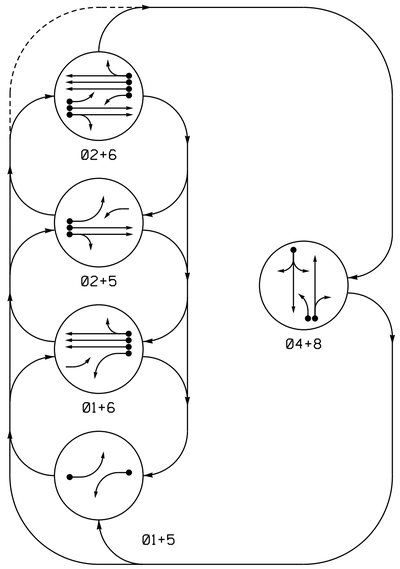


TABLE OF OPERATION							
SIGNAL FACE	PHASE						
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø4+8	FLASH
11	~~—~~	~~—~~	~~F Y~~	~~F Y~~	~~R~~	~~Y~~
21,22	R	R	G	G	R	Y
41,42,43	R	R	R	R	G	R
51	~~—~~	~~F Y~~	~~—~~	~~F Y~~	~~R~~	~~Y~~
61,62,63	R	G	R	G	R	Y
81	~~R~~	~~R~~	~~R~~	~~R~~	~~F Y~~	~~R~~
82,83,84	R	R	R	R	G	R

TABLE OF OPERATION		
SIGNAL FACE	INTERVAL	
	1	2
101	ON	OFF

PHASING DIAGRAM DETECTION LEGEND

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

OASIS 2070 LOOP & DETECTOR INSTALLATION

INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A *	*	0	*	*	1	Y	Y	-	-	15	-	*
					6	Y	Y	-	-	-	-	*
2A *	*	300	*	*	2	Y	Y	-	1.6	-	-	*
2B *	*	90	*	*	2	Y	Y	-	-	-	-	*
4A *	*	0	*	*	4	Y	Y	-	-	10	-	*
5A *	*	0	*	*	5	Y	Y	-	-	15	-	*
					2	Y	Y	-	-	-	-	*
6A *	*	300	*	*	6	Y	Y	-	1.6	-	-	*
6B *	*	90	*	*	6	Y	Y	-	-	-	-	*
8A *	*	0	*	*	8	Y	Y	-	-	3	-	*
8B *	*	0	*	*	8	Y	Y	-	-	10	-	*
S1 *	*	+125	*	*	-	-	-	-	-	-	Y	*
S2 *	*	+125	*	*	-	-	-	-	-	-	Y	*

* Multi-Zone Microwave Detection

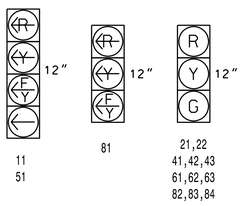
5 Phase
Fully Actuated
(High Point Signal System)

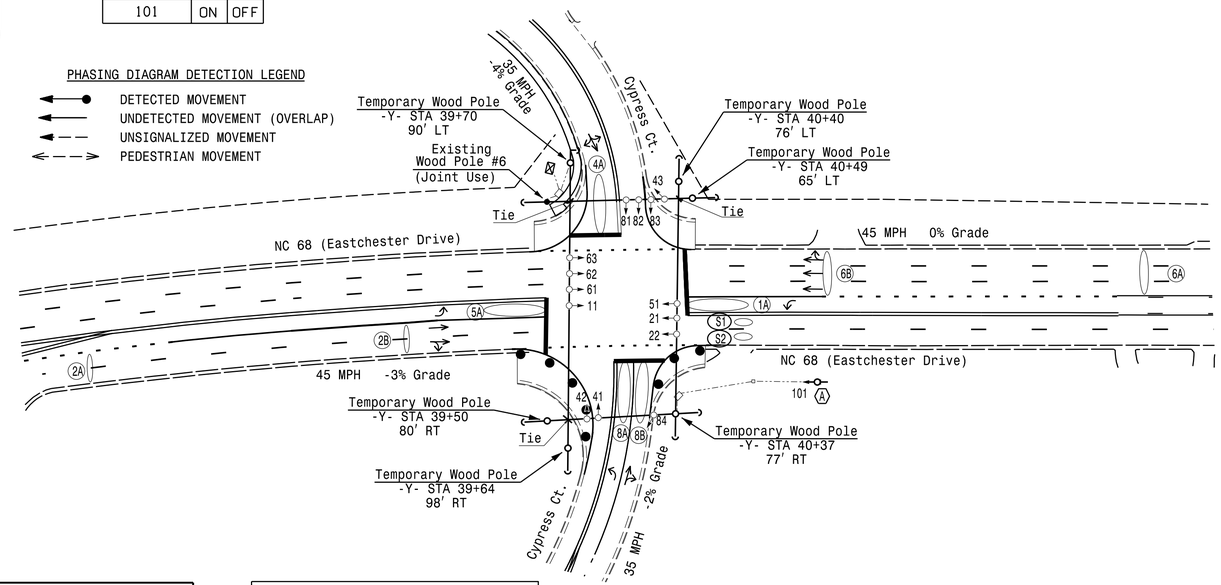
NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. A multiple zone microwave detection system is used to provide traffic detection during this temporary phase on approaches where the existing loops and lead-ins have been rendered inoperable by construction. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.
7. Pavement markings are existing unless otherwise shown.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
9. The Division (City) Traffic Engineer will determine the hours of use for the special events beacon.

SIGNAL FACE I.D.

All Heads L.E.D.





LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Metal Pole with Mastarm	
	Inductive Loop Detector	
	Microwave Detection Zone	
	Controller & Cabinet	
	Junction Box	
	Oversize Junction Box	
	2-in Underground Conduit	
DD	Directional Drill	N/A
N/A	Right of Way	
	Directional Arrow	
N/A	Curb Ramp	
	Construction Zone	
	Construction Zone Drums	
(A)	"SPECIAL EVENT" Sign w/Beacon (Figure 1)	(A)

OASIS 2070 TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	12	7	7	12	7
Extension 1 *	2.0	2.0	2.0	2.0	2.0	2.0
Max Green 1 *	20	90	30	20	90	30
Yellow Clearance	3.0	4.8	4.1	3.0	4.8	4.1
Red Clearance	2.1	1.2	1.5	2.4	1.2	1.5
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation *	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Recall Mode	-	SOFT RECALL	-	-	SOFT RECALL	-
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-
Dual Entry	-	-	ON	-	-	ON
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.

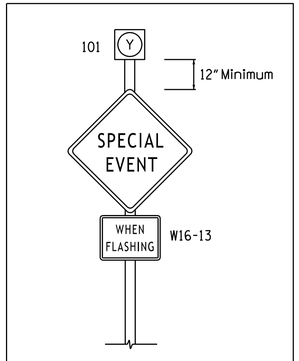
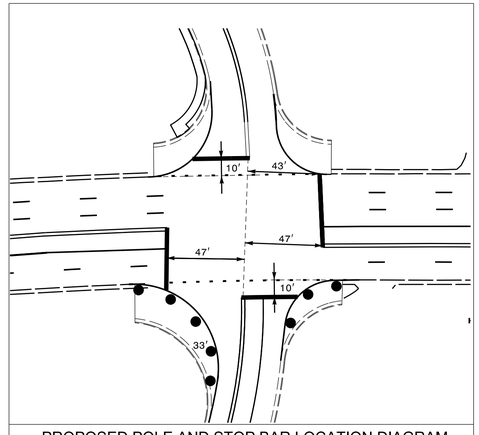


Figure 1: Sign A w/ Beacon



PROPOSED POLE AND STOP BAR LOCATION DIAGRAM
NOT TO SCALE

Project #: 170908

DAVENPORT
HOME OFFICE:
119 BROOKSTOWN AVENUE, SUITE PH1
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NCBELS FIRM LICENSE NO. C-2522

New Installation - Temporary Design 1; TMP-16

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for: NCDOT Transportation Mobility and Safety Division, Special Design Section

750 N.Greenfield Pkwy.Garner,NC 27529

NC 68 (Eastchester Dr.) at Cypress Ct.

Division 7 Guilford County High Point

PLAN DATE: May 2018 REVIEWED BY: R. Hinshaw

PREPARED BY: L. Boyer REVIEWED BY:

SCALE 0 50 1"=50'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL
SEAL 032117
ENGINEER
R. ROYAL HINSHAW

DocuSigned by: R. Royal Hinshaw 05/20/2018
SIGNATURE DATE

SIG. INVENTORY NO. 07-1470TI