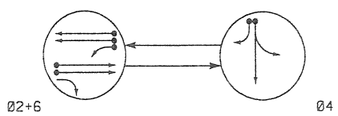
PHASING DIAGRAM



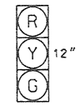
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION			
SIGNAL FACE	PHASE Ø2+6	PHASE Ø4	FLASH
21,22	G	R	Y
41,42	R	G	R
61,62	G	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.



21,22
41,42
61,62

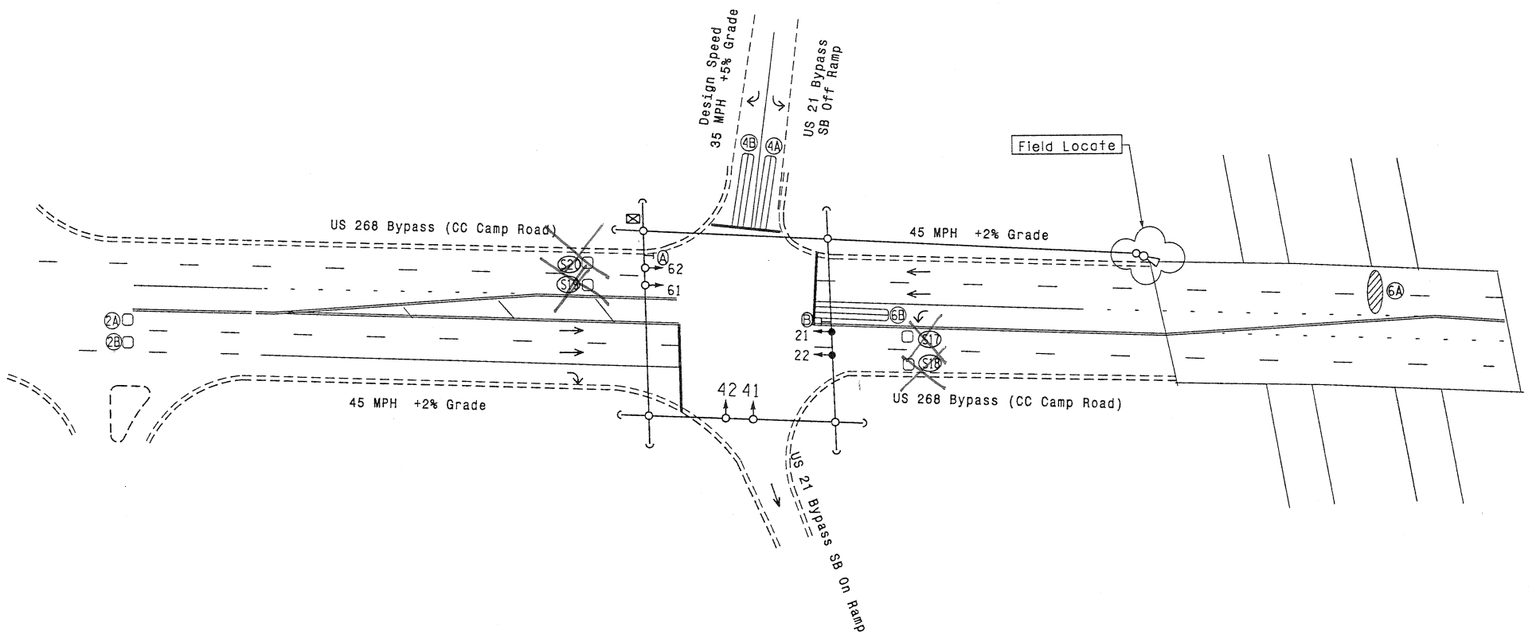
OASIS 2070 LOOP & DETECTOR INSTALLATION												
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)		TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
2B	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	Y
4B	6X40	0	2-4-2	Y	4	Y	Y	-	-	15	-	Y
6A	*	300	*	Y	6	Y	Y	-	-	-	-	*
6B	6X40	0	2-4-2	Y	4	Y	Y	Y	-	3	-	Y
~~S17~~	~~6X6~~	~~+120~~	~~4~~	~~Y~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~Y~~	~~Y~~
~~S18~~	~~6X6~~	~~+120~~	~~4~~	~~Y~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~Y~~	~~Y~~
~~S19~~	~~6X6~~	~~+120~~	~~4~~	~~Y~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~Y~~	~~Y~~
~~S20~~	~~6X6~~	~~+120~~	~~4~~	~~Y~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~Y~~	~~Y~~

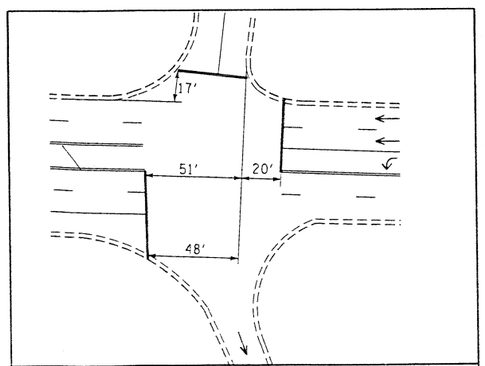
* Out of Pavement Detection Zone

2 Phase
Fully Actuated
US 21 Bus (N. Bridge Street) CLS

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. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
5. Closed loop system data: Controller Asset # 1436.
6. Field locate Pole with out of pavement detector.





Proposed Stopbar Locations

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	
	Out of Pavement Detection Zone	
	Out of Pavement Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
N/A	Guard Rail	
N/A	Fence	
	Directional Arrow	
	Pavement Marking Arrow	
Ⓐ	No Right Turn Sign (R3-1)	Ⓐ
Ⓑ	No Left Turn Sign (R3-2)	Ⓑ

OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6
Min Green 1 *	12	7	12
Extension 1 *	6.0	2.0	6.0
Max Green 1 *	90	20	90
Yellow Clearance	4.7	3.6	4.3
Red Clearance	1.1	1.7	1.1
Red Revert	2.0	2.0	2.0
Walk 1 *	-	-	-
Don't Walk 1	-	-	-
Seconds Per Actuation *	1.5	-	2.0
Max Variable Initial *	34	-	34
Time Before Reduction *	15	-	15
Time To Reduce *	30	-	30
Minimum Gap	3.0	-	3.0
Recall Mode	MIN RECALL	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	YELLOW
Dual Entry	-	-	-
Simultaneous Gap	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.

New Installation

Prepared in the Offices of:
Transportation Mobility and Safety Division
Traffic Engineering Branch
Signal Design Section
1750 N.Greenfield Pkwy, Garner, NC 27529

NC 268 Bypass (CC Camp Road)
at
US 21 Bypass SB Off/On Ramp

Division 11 Surry County Elkin

PLAN DATE: June 2015	REVIEWED BY:
PREPARED BY: C. Pierce	REVIEWED BY:

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 024393 ENGINEER TIMOTHY J. WILLIAMS
Docusigned by: T. J. Williams 6/18
RADTOPREVIEW:
SIG. INVENTORY NO.

18-JUN-2015 13:58
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