## PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

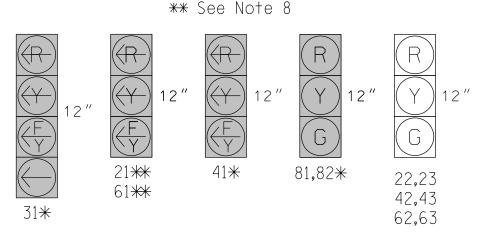
UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT

PEDESTRIAN MOVEMENT

TABLE OF OPERATION PHASE SIGNAL FACE 22,23 42,43 62,63 GRY

## SIGNAL FACE I.D. All Heads L.E.D. \* See Note 7

P61,P62 | W | DW | DRK



2033 SOFTWARE w/ 2070 CONTROLLER LOOP & DETECTOR UNIT INSTALLATION CHART

										DET	ECT	ΓOR	PR	OGF	RAMN	NIN	G				
INDUCTIVE LOOPS											ATTRIBUTES								PS	STATUS	
					TIMING				2		4	5	6	7	8	OOPS		()			
LOOP NO.	SIZE (ft)	TURNS	DIST. FROM STOPBAR (ft)	ZEW	EXISTING	NEMA PHASE	I DELAY		CAF		FULL TIME DELAY		RESERVED	COUNT	EXTENSION	TYPE 3	CALLING	ALTERNATE	SYSTEM I	ZEK	EXISTING
2A	6x6	*	70	-	*	2	_	SEC.	_	SEC.	_	_	_	_	Χ	_	Χ	_	_	_	*
4 A	6×40	*	0	-	*	4	3	SEC.	-	SEC.	-	-	-	-	Χ	-	Χ	-	-		*
4B	6×40	*	0	-	*	4	15	SEC.	-	SEC.	_	-	-	-	Χ	-	Χ	-	-	-	*
6A	6x6	*	70	-	*	6	-	SEC.	-	SEC.	-	_	-	-	Χ	-	Χ	-	-	_	*
PEDESTR	RIAN DE	TECTIO	N																		
P61,P62	N/A	N/A	N/A	_	X	6	_	SEC.	_	SEC.	_	X	_	_	_	_	_	_	_	_	X

\* Video Detection Zone

PROJECT REFERENCE NO.

U-3308

|Sig. 34.0|

2 Phase Fully Actuated (Durham Signal System)

## **NOTES**

- 1. Refer to "Road Standard Drawings NCDOT" dated January 2012, "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
  - Set all detector units to presence mode.
- 4. Program all timing information into phase banks 1,2, and 3 unless otherwise noted.
- 5. Set phase bank 3 maximum limit to 250 seconds for phases used.
- 6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 7. Disconnect and bag signal heads #31, #41, #81, #82, and optical detector #10 during this phase of construction.
- 8. Signal heads #21 and #61 and pedestrian signal heads #P21 and #P22 to remain disconnected and bagged during this phase of construction.
- 9. Contractor shall adjust video detection zones as required.

**PROPOSED** 

 $\bigcirc$ 

NC 55 (N. Alston Ave.)  R/WPUE PUE PUE PUE PUE PUE PUE PUE	# S S S S S S S S S S S S S S S S S S S	UEPUE
R/W————————————————————————————————————	PUE PUE PUE NAME NAME NAME NAME NAME NAME NAME NAM	NC 55 (N. Alston Ave.)

## With Push Button & Sign Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector Controller & Cabinet Junction Box ----- 2-in Underground Conduit -----Right of Way Directional Arrow "No Left Turn" (R3-2) "No Right Turn" (R3-1) "Left Arrow Only" (R3-2) "Right Arrow Only" (R3-1) Work Area Drums N/A

Construction Easement

—— PDE — Permanent Drainage Easment

Permanent Utility Easment

**LEGEND** 

Traffic Signal Head

Modified Signal Head

Pedestrian Signal Head

**EXISTING** 

**-**

N/A

N/A

Barricades N/A Direct Bury ----- $\bigcirc$ Optical Detector Video Detector Video Detection Area

Signal Upgrade - Temporary Design 4 (TMP Phase 1, Steps 11-21)



NC 55 (North Alston Avenue) Liberty St

Division 5 Durham County Durham PLAN DATE: September 2014 REVIEWED BY: J Hochanadel

REVISIONS INIT. DATE

TIMING CHART 2033 SOFTWARE w/2070 CONTROLLER Ø6 PHASE Ø4 MINIMUM INITIAL \* 10 **SEC**. 7 **SEC**. 1 () **SEC**. 3.0 **SEC**. 2.0 **SEC**. 3.0 **SEC**. VEHICLE EXTENSION 3.7 **SEC**. 3.2 **SEC**. YELLOW CHANGE INT. RED CLEARANCE 1.4 SEC. | 1.9 SEC. 1.6 **SEC**. 50 **SEC**. 50 **SEC**. 35 **SEC**. MAXIMUM LIMIT \* VEH. RECALL NONE VEH. RECALL RECALL POSITION VEHICLE CALL MEMORY YELLOW LOCK YELLOW LOCK OFF DOUBLE ENTRY  $-\quad {\rm SEC}.$ - SEC. 4 **SEC**. FLASHING DON'T WALK SEC. 10 **SEC**. SEC. MIN PED CLEARANCE — SEC. - SEC. TYPE 3 LIMIT SEC. - SEC. SEC. ALTERNATE EXTENSION - SEC. SEC. - SEC. ADD PER VEHICLE \* - SEC. — SEC. SEC. MAXIMUM INITIAL ' — SEC. — SEC. SEC. 2 **.** 0 **SEC**. 3 **.** 0 **SEC**. 3 . 0 **SEC**. MAXIMUM GAP\* REDUCE 0.1 SEC EVERY \* SEC. SEC. — SEC. 3.0 **SEC**. 2.0 **SEC**.

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License #: C-2197

750 N.Greenfield Pkwy, Garner, NC 27529 PREPARED BY: R Drayton REVIEWED BY:

MyPAL 4/02/15 DATE SIG. INVENTORY NO. 05-1029T4

SEAL