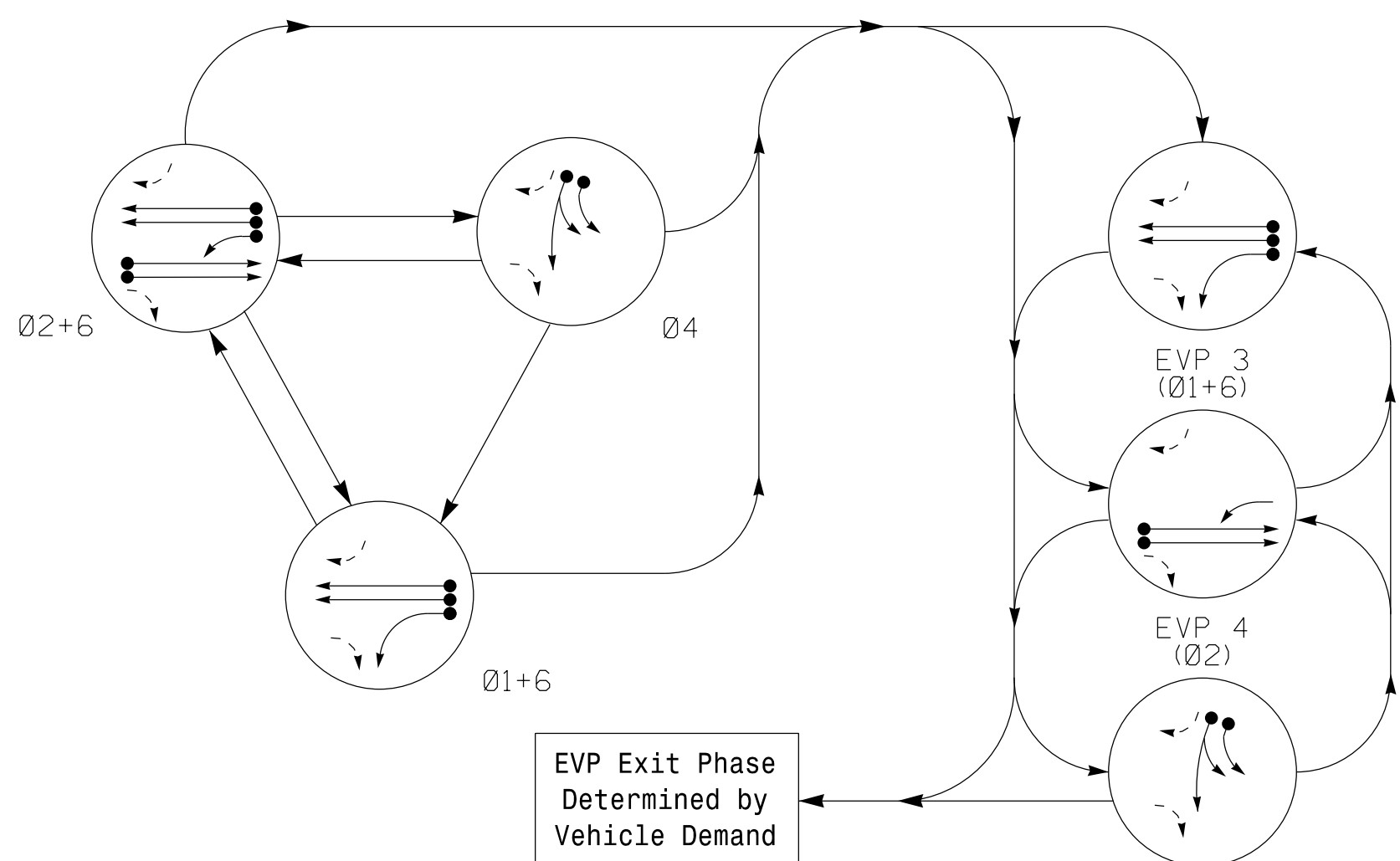


PHASING DIAGRAM



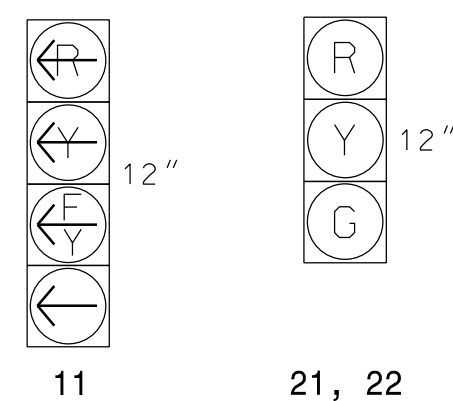
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE					
	Ø 1 + 6	Ø 2 + 6	Ø 4	EVP 3	EVP 4	EVP 5
11	←	←	←	←	←	←
21, 22	R	G	R	R	G	R
41, 42	R	R	G	R	R	G
61, 62	G	G	R	G	R	R

SIGNAL FACE I.D.

All Heads L.E.D.

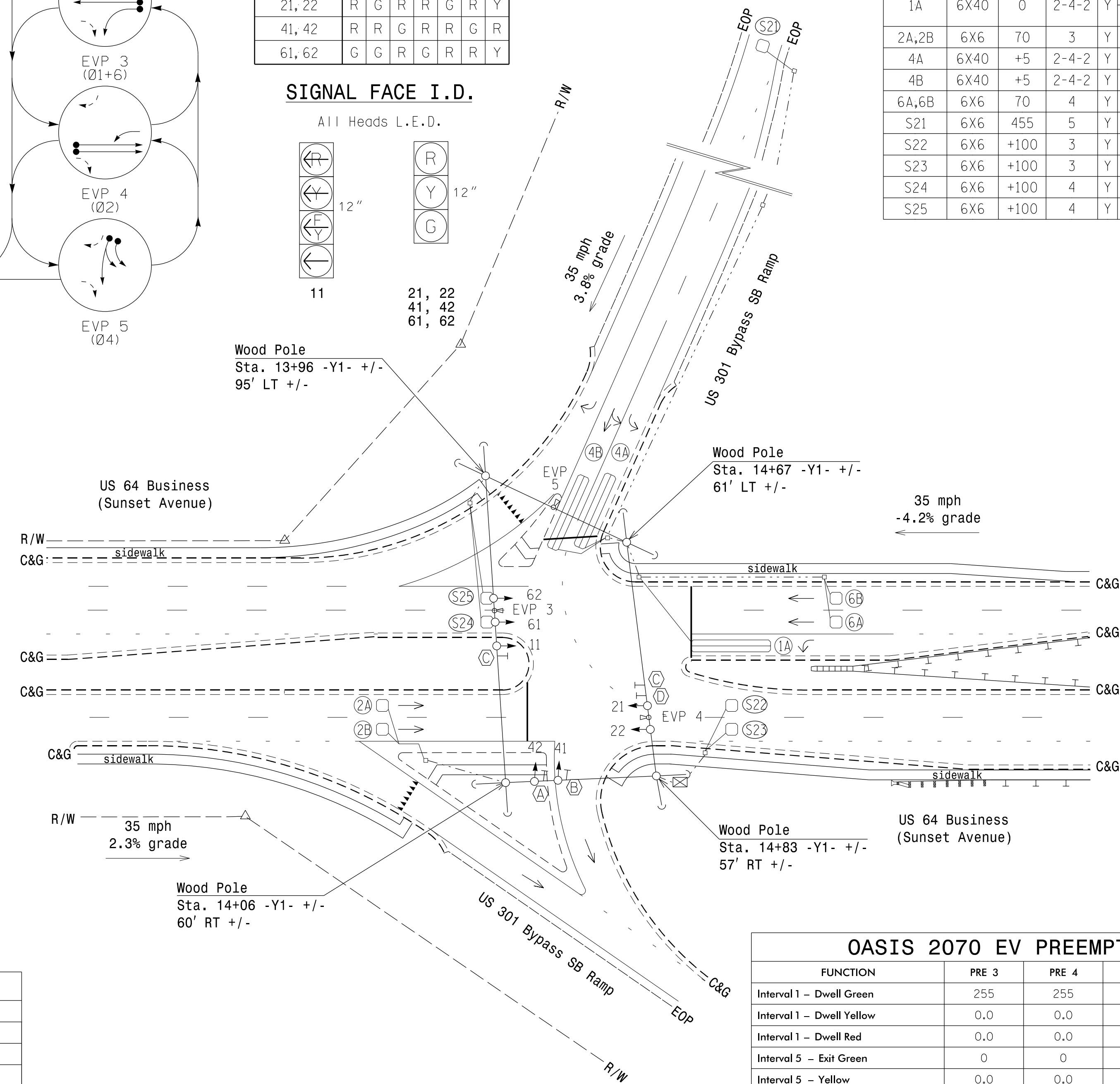


OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
INDUCTIVE LOOPS				DETECTOR PROGRAMMING								
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	15	-	Y
2A,2B	6X6	70	3	Y	6	Y	Y	-	-	-	-	Y
4A	6X40	+5	2-4-2	Y	4	Y	Y	-	-	-	-	Y
4B	6X40	+5	2-4-2	Y	4	Y	Y	-	-	-	-	Y
6A,6B	6X6	70	4	Y	6	Y	Y	-	-	-	-	Y
S21	6X6	455	5	Y	-	Y	Y	-	-	-	-	Y
S22	6X6	+100	3	Y	-	Y	Y	-	-	-	-	Y
S23	6X6	+100	3	Y	-	Y	Y	-	-	-	-	Y
S24	6X6	+100	4	Y	-	Y	Y	-	-	-	-	Y
S25	6X6	+100	4	Y	-	Y	Y	-	-	-	-	Y

3 Phase W/ EV Preempt Fully Actuated Rocky Mount Signal System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 may be lagged.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
- Install EVP 3, EVP 4 and EVP 5 detectors on new spans. Install Phase Selectors in signal cabinet. See Project Special Provisions.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

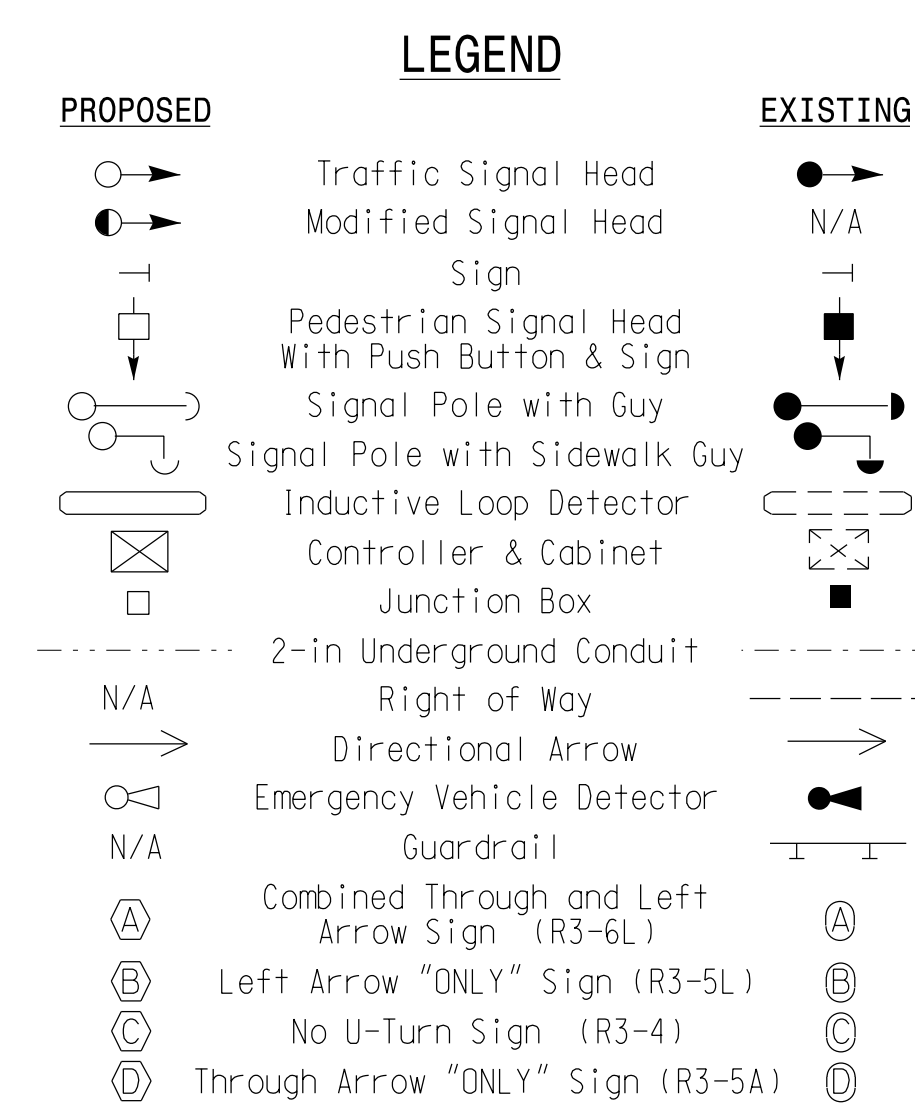


OASIS 2070E TIMING CHART				
FEATURE	PHASE			
	1	2	4	6
Min Green 1 *	7	10	7	10
Extension 1 *	2.0	3.0	2.0	3.0
Max Green 1 *	15	45	25	45
Yellow Clearance	3.1	4.2	3.7	4.2
Red Clearance	3.1	2.0	2.5	2.0
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable 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

* 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.

OASIS 2070 EV PREEMPT			
FUNCTION	PRE 3	PRE 4	PRE 5
Interval 1 - Dwell Green	255	255	255
Interval 1 - Dwell Yellow	0.0	0.0	0.0
Interval 1 - Dwell Red	0.0	0.0	0.0
Interval 5 - Exit Green	0	0	0
Interval 5 - Yellow	0.0	0.0	0.0
Interval 5 - Red	0.0	0.0	0.0
Exit Phase(s)	-	-	-
Priority	MED	MED	MED
Delay Time	0.0	0.0	0.0
Min Green Before Pre	1	1	1
Ped Clear Before Pre	0	0	0
Yellow Clear Before Pre	0.0	0.0	0.0
Red Clear Before Pre	0.0	0.0	0.0
Dwell/Min Time	10	10	7
Enable Backup Protection	N	N	N
Ped Clear Through Yellow	N	N	N
Omit Overlaps	-	-	-
Preempt Extend**	5	5	5

** Time defaults to time used for phase during normal operation Program Timing on Optical Detection Unit



Signal Upgrade - Final Design

Prepared for the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 64 Business (Sunset Avenue) at US 301 Byp. Southbound Ramps

Division 04 Nash County Rocky Mount

PLAN DATE: November 2016 REVIEWED BY: MB Toth

PREPARED BY: AM Encarnacion REVIEWED BY:

SEAL

MELISSA B. TOTH

REVISIONS	INIT.	DATE

1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-8888 NOBES #F-0326

Downloaded by: Melissa B. Toth 1/30/2017

SIG. INVENTORY NO. 04-0429