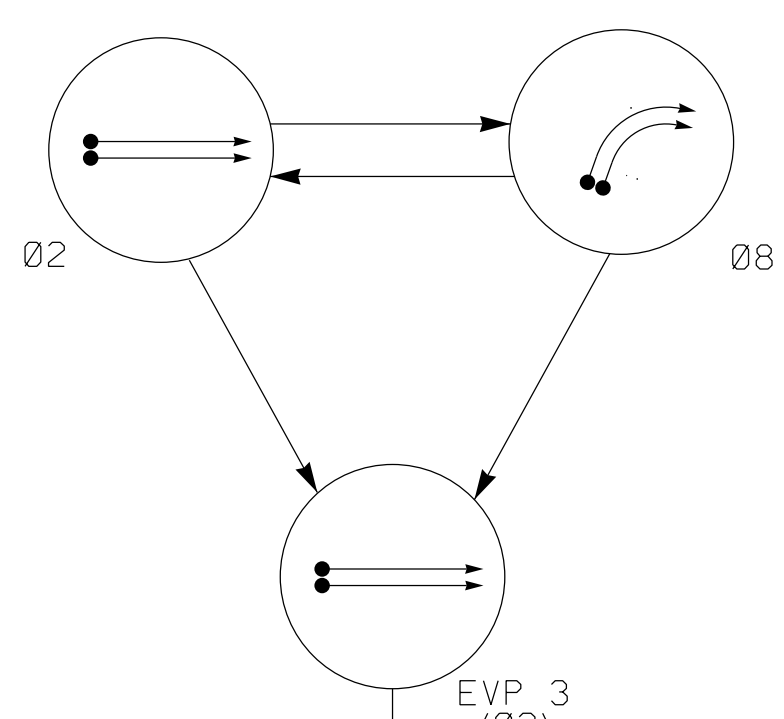


PHASING DIAGRAM



EVP Exit Phase Determined by Vehicle Demand

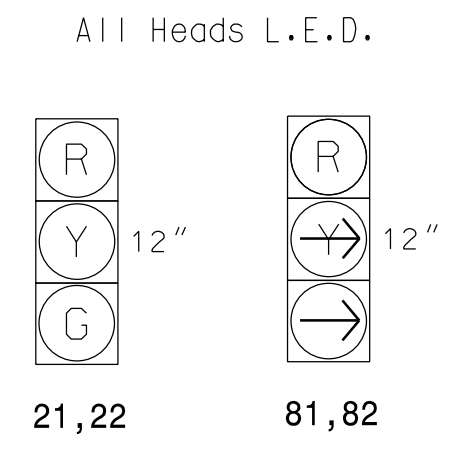
PHASING DIAGRAM DETECTION LEGEND

- ← ● DETECTED MOVEMENT
- ← ○ UNDETECTED MOVEMENT (OVERLAP)
- ← ○ UNSIGNALIZED MOVEMENT
- ← ○ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE			
	02	08	EVP 3	FLASH
21, 22	G	R	G	Y
81, 82	R	→	R	R

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

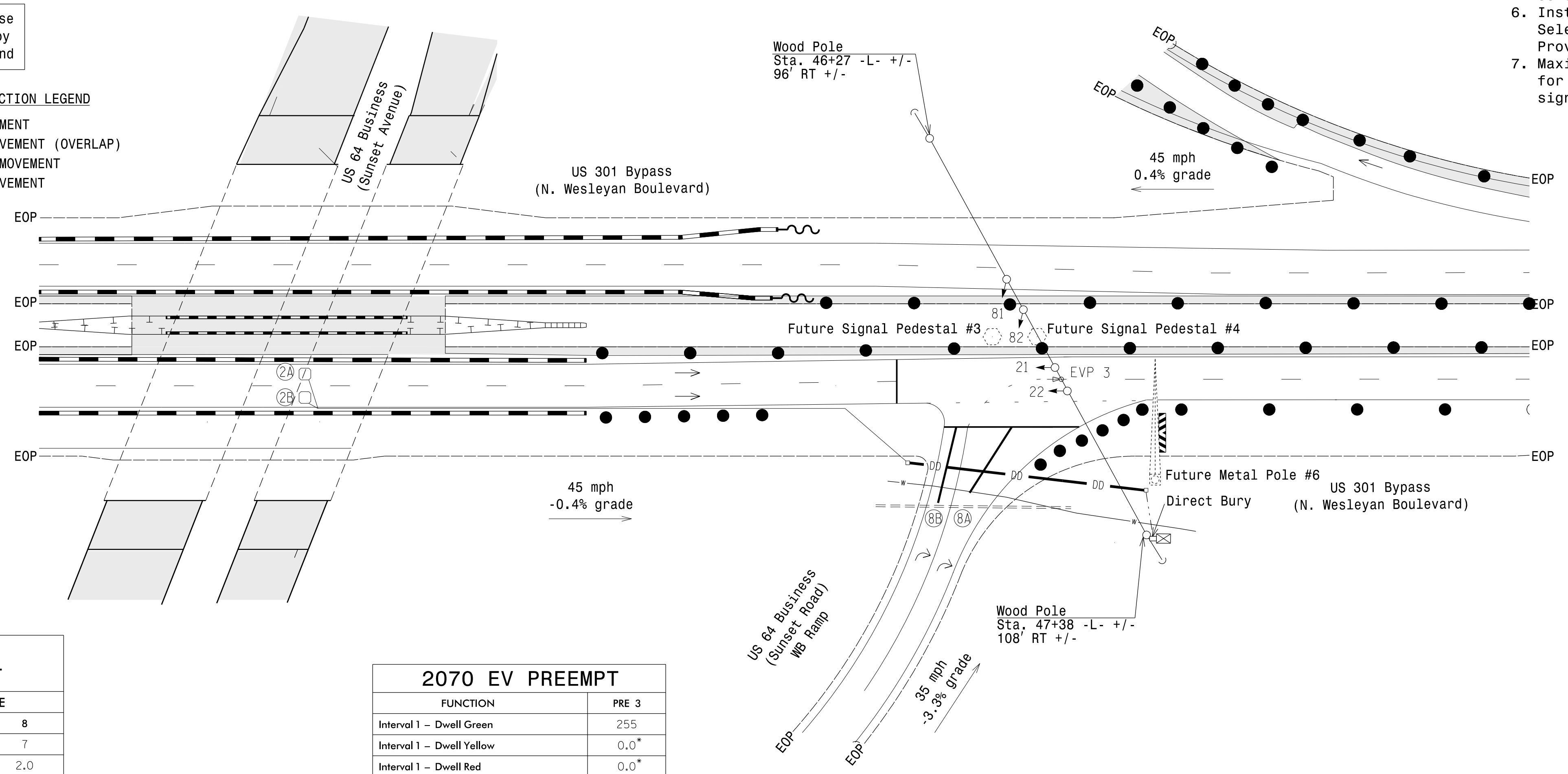
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING								
				NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6X6	300	5	Y	2	Y	Y	-	-	-	-	*
2B	6X6	300	5	Y	2	Y	Y	-	-	-	-	*
8A	6X40	0	*	Y	8	Y	Y	-	-	15	-	*
8B	6X40	0	*	Y	8	Y	Y	-	-	15	-	*

* Video Detection

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

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 loop emulators to presence mode.
4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
6. Install EVP 3 detector on new span. Install Phase Selector in signal cabinet. See Project Special Provisions.
7. Maximum times shown in timing charts are for free-run operation only. Coordinated signal timing values supersede these values.



OASIS 2070E TIMING CHART

FEATURE	PHASE	
	2	8
Min Green 1 *	12	7
Extension 1 *	6.0	2.0
Max Green 1 *	60	30
Yellow Clearance	4.6	3.4
Red Clearance	1.3	1.7
Red Revert	2.0	2.0
Walk 1 *	-	-
Don't Walk 1	-	-
Seconds Per Actuation *	1.5	-
Max Variable Initial *	34	-
Time Before Reduction *	15	-
Time To Reduce *	30	-
Minimum Gap	3.0	-
Recall Mode	MIN RECALL	-
Vehicle Call Memory	YELLOW	-
Dual Entry	-	-
Simultaneous Gap	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.

2070 EV PREEMPT

FUNCTION	PRE 3
Interval 1 - Dwell Green	255
Interval 1 - Dwell Yellow	0.0*
Interval 1 - Dwell Red	0.0*
Interval 5 - Exit Green	0
Interval 5 - Yellow	0.0
Interval 5 - Red	0.0
Exit Phase(s)	-
Priority	MED
Delay Time	0.0
Min Green Before Pre	1
Ped Clear Before Pre	0
Yellow Clear Before Pre	0.0*
Red Clear Before Pre	0.0*
Dwell Min Time	12
Enable Backup Protection	N
Ped Clear Through Yellow	N
Omit Overlaps	-
Preempt Extend**	5

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

LEGEND

PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
○ → Modified Signal Head	○ → N/A
○ → Sign	○ → N/A
○ → Pedestrian Signal Head	○ → N/A
○ → Signal Pole with Guy	○ → N/A
○ → Signal Pole with Sidewalk Guy	○ → N/A
○ → Inductive Loop Detector	○ → N/A
○ → Controller & Cabinet	○ → N/A
○ → Junction Box	○ → N/A
○ → 2-in Underground Conduit	○ → N/A
N/A → Right of Way	N/A → N/A
N/A → Directional Arrow	N/A → N/A
N/A → Guardrail	N/A → N/A
○ → Emergency Vehicle Detector	○ → N/A
○ → Construction Zone	○ → N/A
○ → Construction Barricade	○ → N/A
○ → Crash Cushion	○ → N/A
○ → Portable Concrete Barrier	○ → N/A
○ → Video Detection Area	○ → N/A
N/A → UG Water Line	N/A → N/A
N/A → Drainage Pipe	N/A → N/A

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Signal Upgrade - Temporary Signal (Area 1 TMP Phase II and III)

Prepared for the Offices of:

1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NOBEEES #F-0326

US 301 Byp (N. Wesleyan Blvd) at US 64 Bus (Sunset Ave) WB Ramp

Division 04 Nash County Rocky Mount

PLAN DATE: November 2016 REVIEWED BY: MB Toth

PREPARED BY: AM Encarnacion REVIEWED BY:

SEAL

1/30/2017

DATE

SIG. INVENTORY NO. 04-140811

30-JAN-2017 17:11 D:\projects\2017\01\11\00002135_U-3330_Signal\02_Signal\04-140811.dgn E:\45386 AT US290291