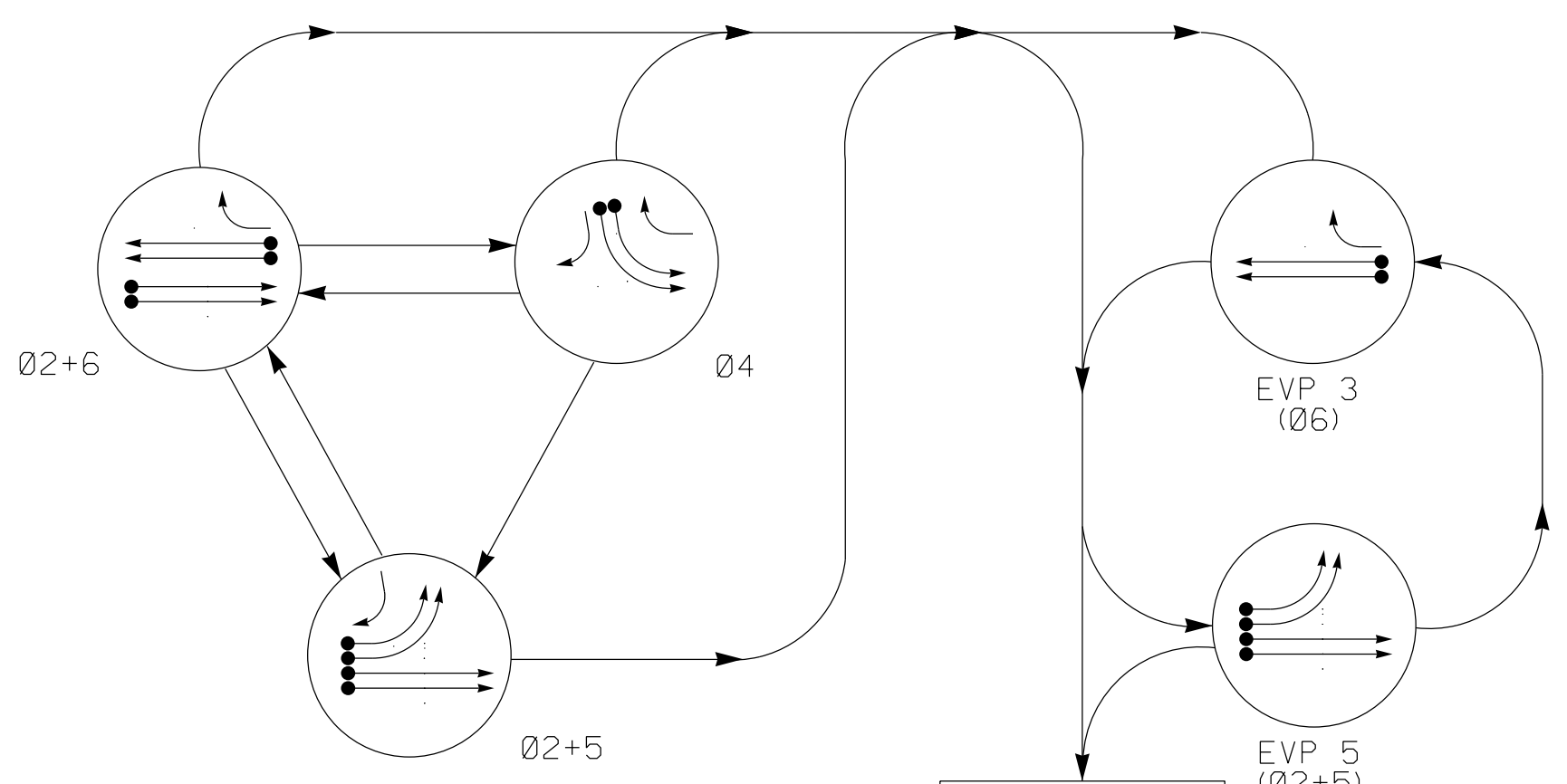


PHASING DIAGRAM



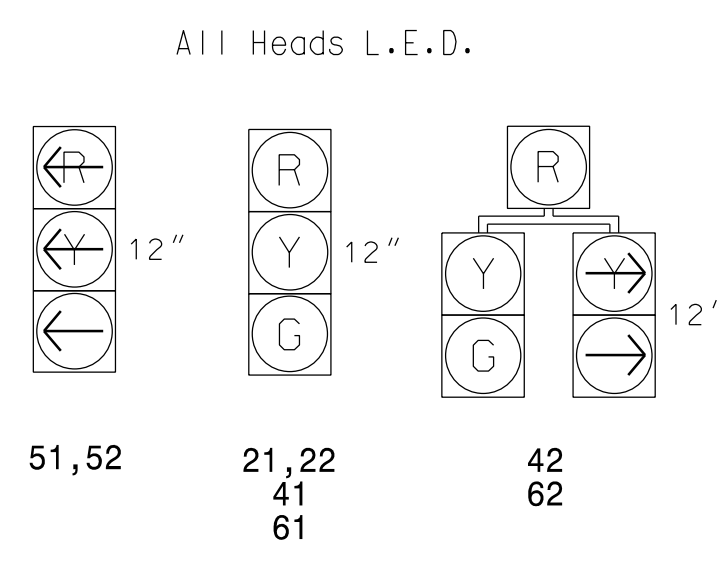
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE					
	02+5	02+6	04	EVP 3	EVP 5	FL
21, 22	G	G	R	R	G	Y
41	R	R	G	R	R	R
42	R	R	G	R	R	R
51, 52	R	R	G	R	R	R
61	R	G	R	G	R	Y
62	R	G	R	G	R	Y

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

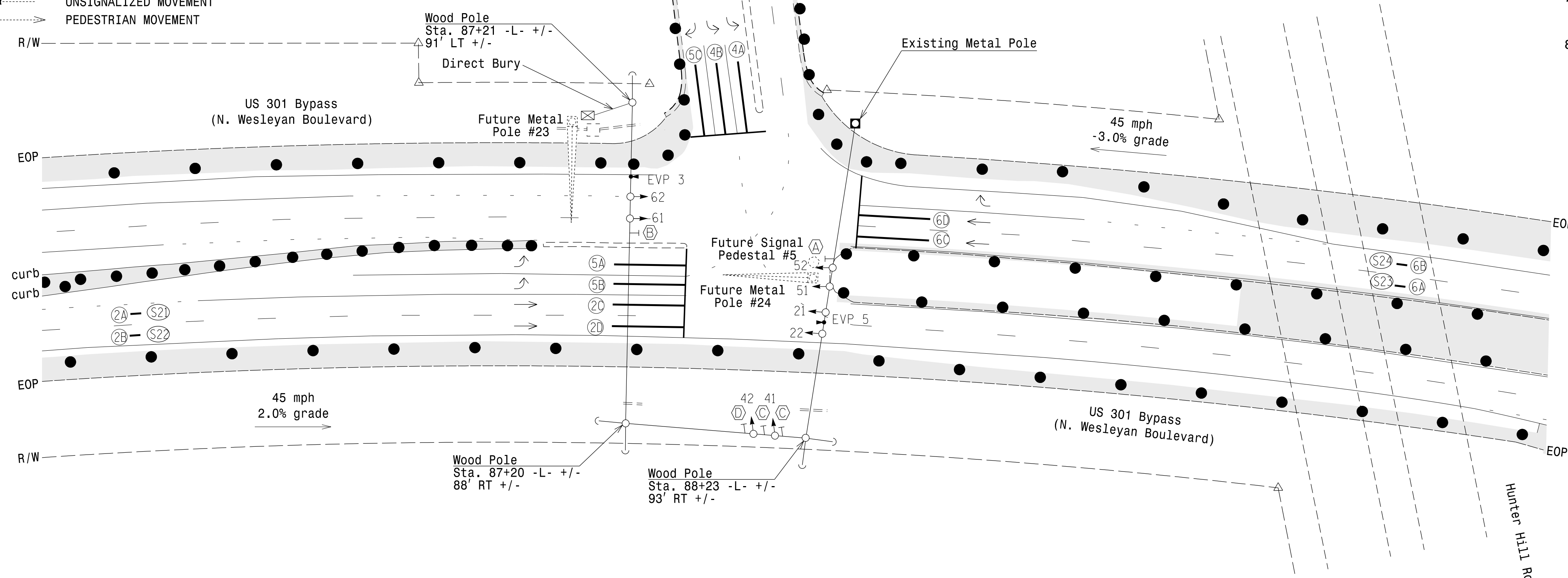
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING								
				NEW LOOP	PHASE	CALLING	EXTENSION	STRETCH TIME	DELAY TIME			
2A/S21	6X6	300	*	Y	2	Y	Y	-	-	-	Y	*
2B/S22	6X6	300	*	Y	2	Y	Y	-	-	-	Y	*
2C	6X40	0	*	Y	2	Y	Y	Y	2	5	-	*
2D	6X40	0	*	Y	2	Y	Y	Y	2	5	-	*
4A	6X40	0	*	Y	4	Y	Y	-	-	-	-	*
4B	6X40	0	*	Y	4	Y	Y	-	-	-	-	*
5A	6X40	0	*	Y	5	Y	Y	-	-	-	-	*
5B	6X40	0	*	Y	5	Y	Y	-	-	-	-	*
5C	6X40	0	*	Y	5	Y	Y	-	-	15	-	*
6A/S23	6X6	300	*	Y	6	Y	Y	-	-	-	Y	*
6B/S24	6X6	300	*	Y	6	Y	Y	-	-	-	Y	*
6C	6X40	0	*	Y	6	Y	Y	Y	2	5	-	*
6D	6X40	0	*	Y	6	Y	Y	Y	2	5	-	*

* Video Detection Area

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 5 may be lagged.
- Set all loop emulators 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.
- Relocate EVP 3 and EVP 5 detectors to new spans. Reuse existing Phase Selectors. See Project Special Provisions.
- Maximum times shown in timing charts are for free-run operation only. Coordinated signal timing values supersede these values.

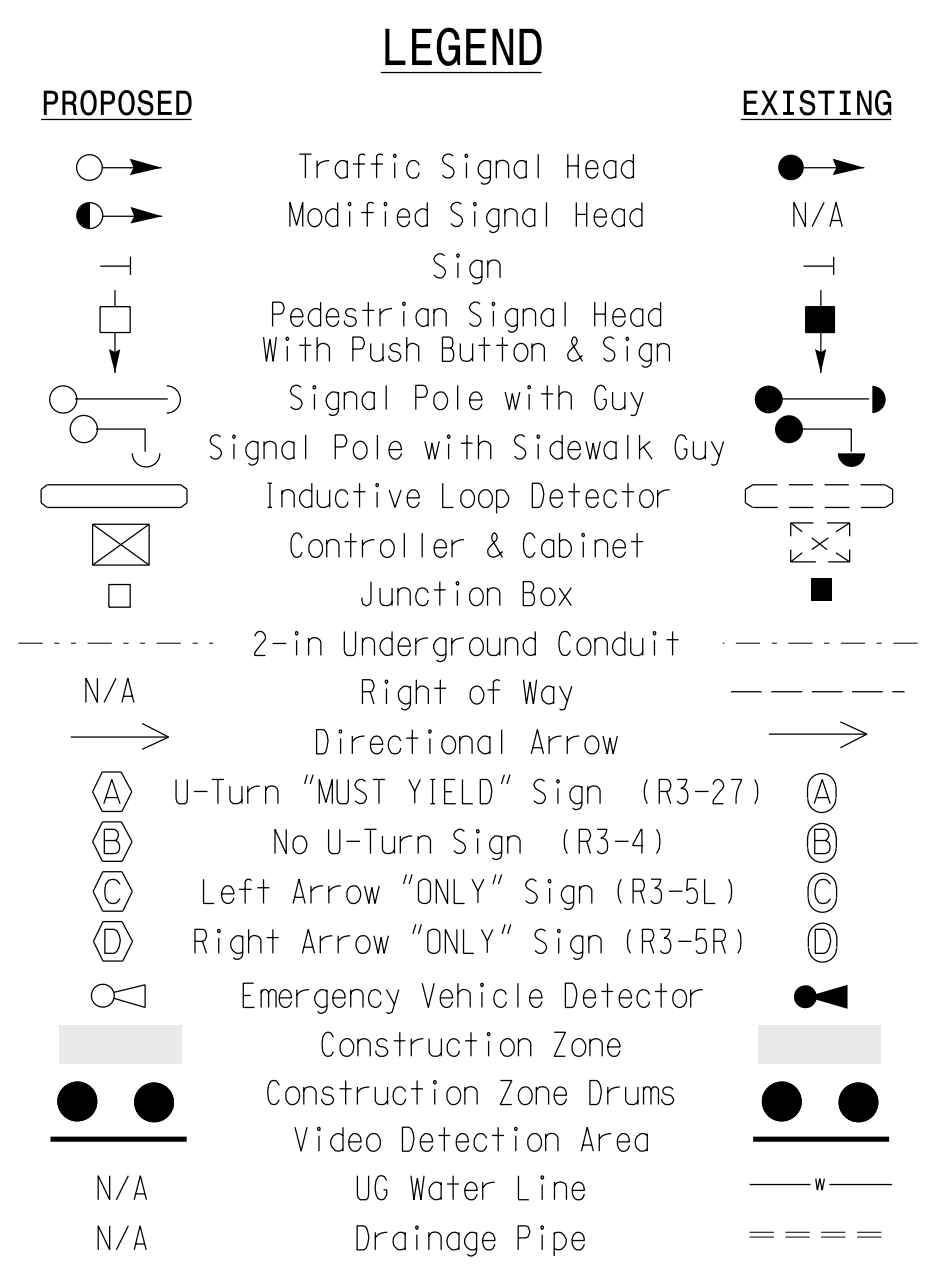


OASIS 2070E TIMING CHART

FEATURE	PHASE			
	2	4	5	6
Min Green 1 *	12	7	7	12
Extension 1 *	6.0	2.0	2.0	6.0
Max Green 1 *	90	25	25	90
Yellow Clearance	4.3	3.0	3.0	4.8
Red Clearance	1.4	3.7	3.1	1.4
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 *	15	-	-	15
Time To Reduce *	30	-	-	30
Minimum Gap	3.0	-	-	3.0
Recall Mode	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	-	-	-	-
Dual Entry	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON

2070 EV PREEMPT

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



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Signal Upgrade - Temporary Design 1 (Area 3 TMP Phases I & II)

Prepared for the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 301 Byp. (N. Wesleyan Blvd) at Word Plaza

Division 04 Nash County Rocky Mount

PLAN DATE: November 2016 REVIEWED BY: MB Toth

PREPARED BY: AM Encarnacion REVIEWED BY:

SEAL

MELISSA B. TOTH

Scale: 1"=40'

REVISIONS	INIT.	DATE

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

30-JAN-2017 17:51 D:\Projects\2017\01\00032135_U-3330_Signal\02-Signal\04-130011.dgn ENL5086 - AT LUS9321

* 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.

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