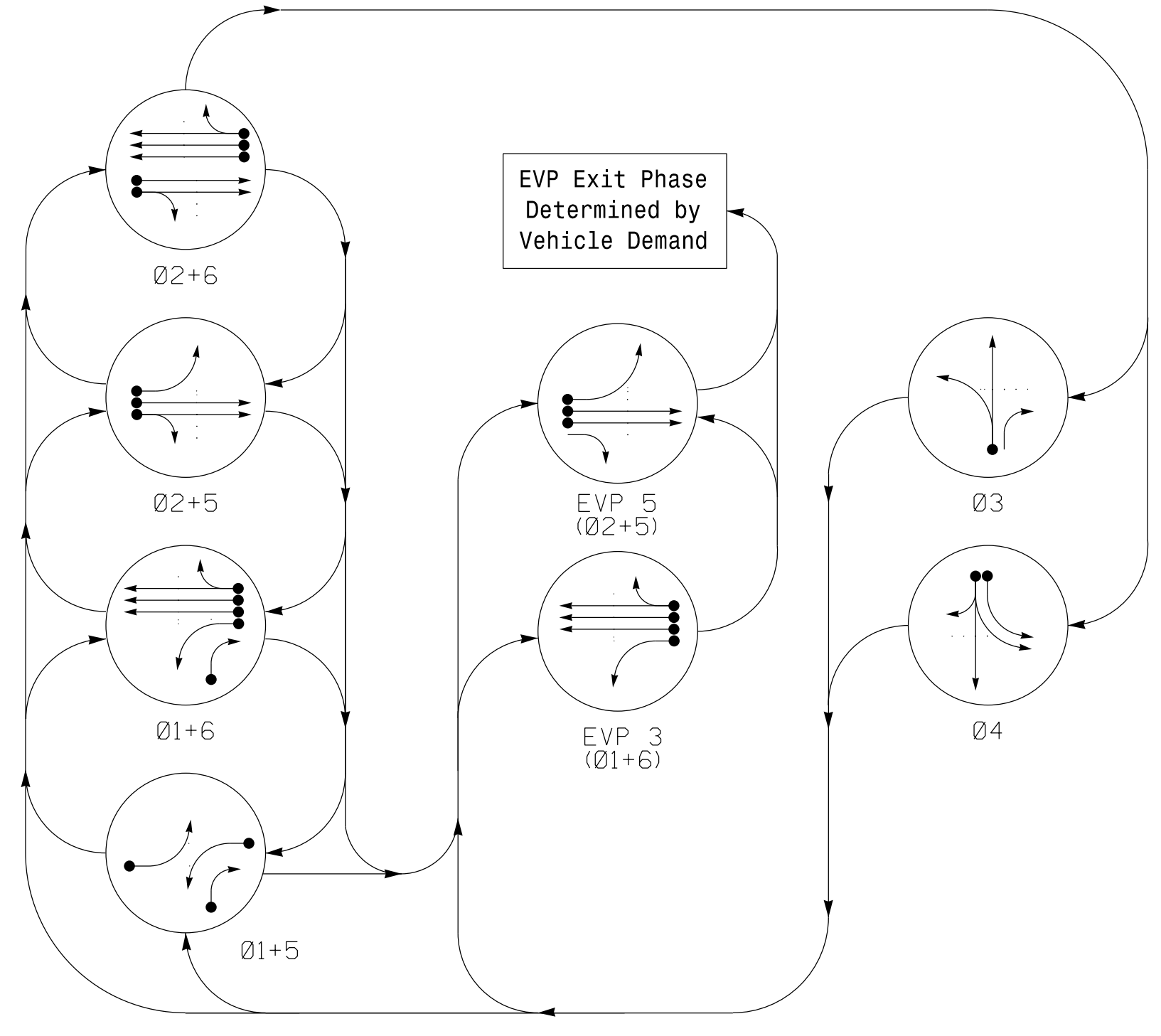


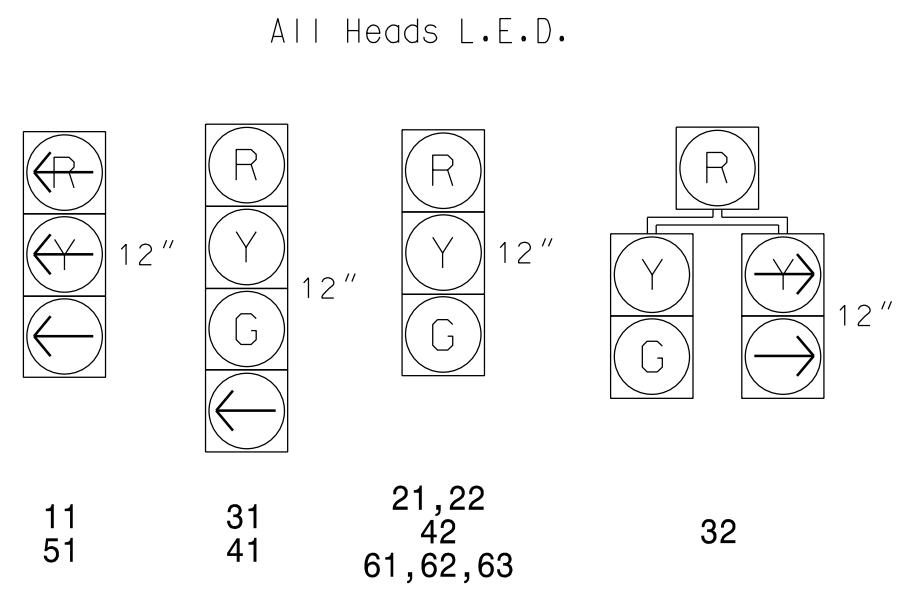
**PHASING DIAGRAM**



**TABLE OF OPERATION**

SIGNAL FACE	PHASE											
	01+5	01+6	02+5	02+6	03	04	PV	EV	HS	LT	RT	FT
11	←	←	←	←	←	←	←	←	←	←	←	←
21,22	R	R	G	G	R	R	R	G	Y			
31	R	R	R	R	G	R	R	R	R			
32	R	R	R	R	G	R	R	R	R			
41	R	R	R	R	R	G	R	R	R			
42	R	R	R	R	R	G	R	R	R			
51	←	←	←	←	←	←	←	←	←			
61,62,63	R	G	R	G	R	R	G	R	Y			

**SIGNAL FACE I.D.**



**OASIS 2070 DETECTION 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
1A	6x40	0	*	Y	1	Y	Y	-	-	-	-	*
1B	6x40	0	*	Y	1	Y	Y	-	-	15	-	*
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	-	*
3A	6x40	0	*	Y	3	Y	Y	-	-	-	-	*
4A	6x40	0	*	Y	4	Y	Y	-	-	-	-	*
4B	6x40	0	*	Y	4	Y	Y	-	-	5	-	*
5A	6x40	0	*	Y	5	Y	Y	-	-	-	-	*
6A	6x6	300	*	Y	6	Y	Y	-	-	-	-	*
6B	6x6	300	*	Y	6	Y	Y	-	-	-	-	*
6C	6x6	300	*	Y	6	Y	Y	-	-	-	-	*
6D	6x40	0	*	Y	6	Y	Y	Y	2	5	-	*
6E	6x40	0	*	Y	6	Y	Y	Y	2	5	-	*
6F	6x40	0	*	Y	6	Y	Y	Y	2	5	-	*

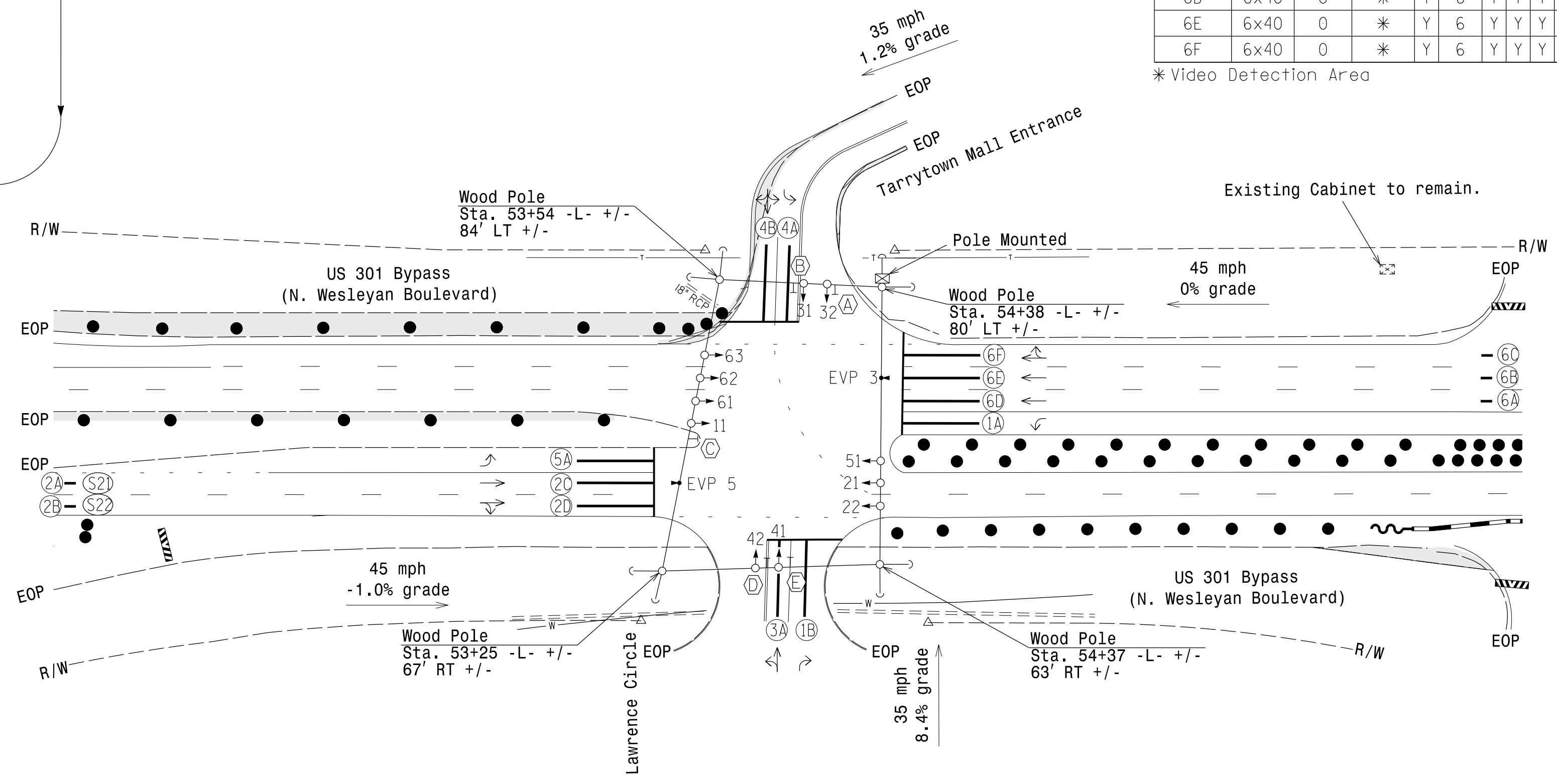
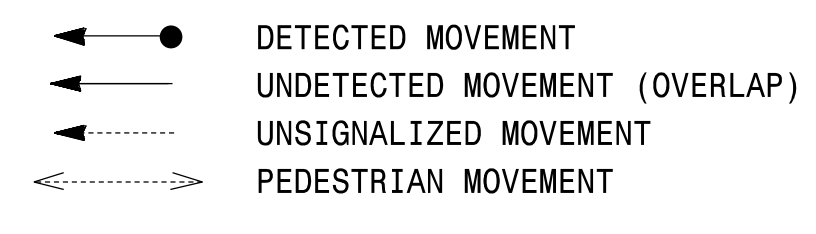
\* Video Detection Area

**6 Phase W/ EV Preempt Fully Actuated Rocky Mount Signal System**

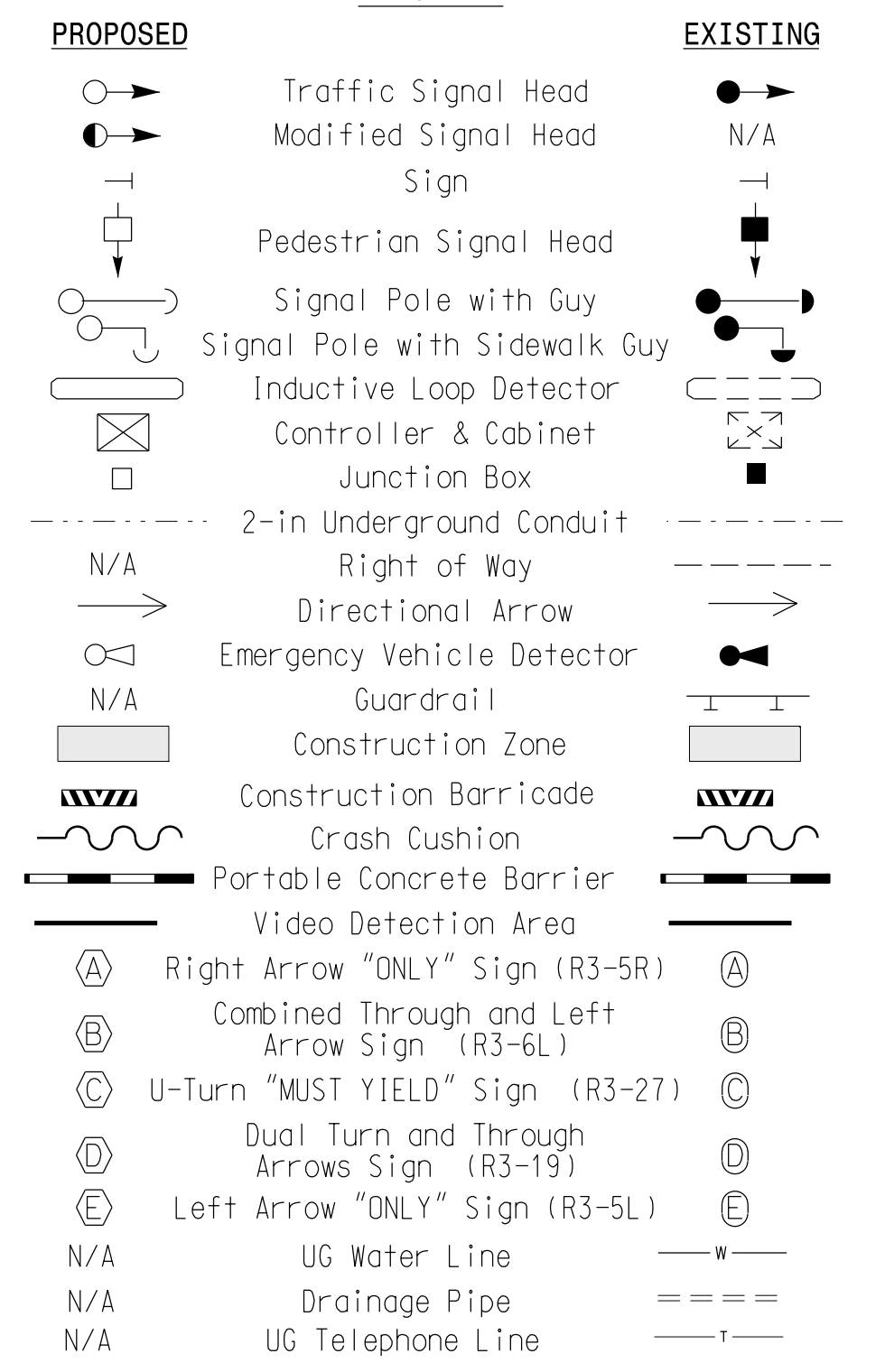
**NOTES**

- 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 and/or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Set all loop emulators to presence mode.
- This intersection features an optical preemption system. Shown locations of optical preemption are conceptual only.
- Relocate EVP 3 and EVP 5 detectors onto new spans. Relocate 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.

**PHASING DIAGRAM DETECTION LEGEND**



**LEGEND**



**OASIS 2070E TIMING CHART**

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1 *	7	12	7	7	7	12
Extension 1 *	2.0	6.0	3.0	2.0	2.0	6.0
Max Green 1 *	30	90	15	25	15	90
Yellow Clearance	3.0	4.6	3.4	3.8	3.0	4.5
Red Clearance	3.1	1.5	2.2	2.5	3.4	1.4
Red Revert	2.0	2.0	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	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	A	-
Preempt Extend**	5	5

\* 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

**Signal Upgrade - Temporary Design 2 (Area 2 TMP Phase I Step 2)**

Prepared for the Offices of:  
**US 301 Byp (N. Wesleyan Blvd) at Lawrence Circle / Tarrytown Mall Entrance**  
 Division 04 Nash County Rocky Mount  
 PLAN DATE: November 2016 REVIEWED BY: MB Toth  
 PREPARED BY: AM Encarnacion REVIEWED BY:  
 SCALE: 1"=50'  
 REVISIONS: INIT. DATE  
 1/30/2017  
 MELISSA B. TOTH  
 SIG. INVENTORY NO. 04-016912

30-JAN-2017 17:26 D:\Projects\2017\04\US3330\Signal\04-016912.dgn