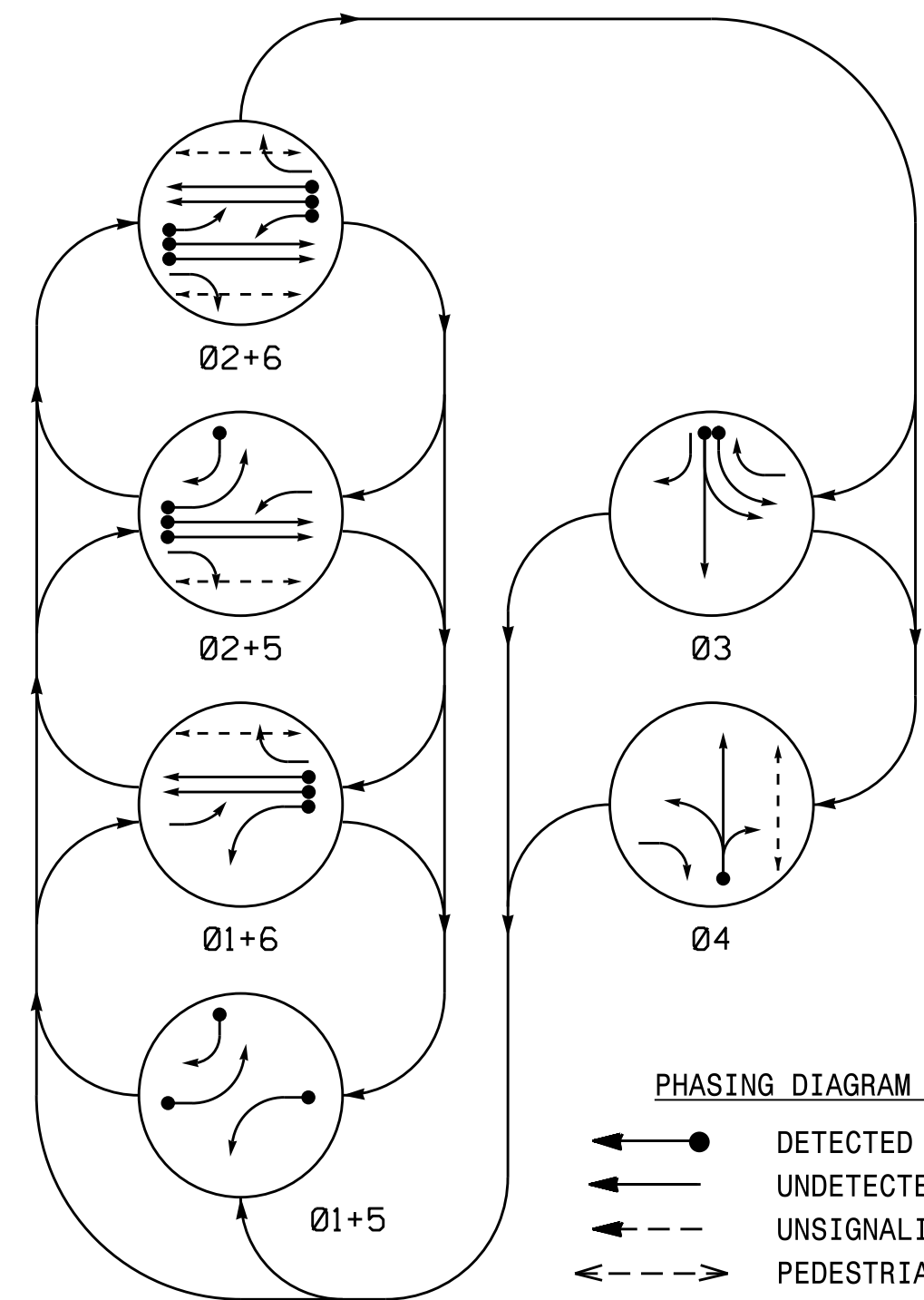


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

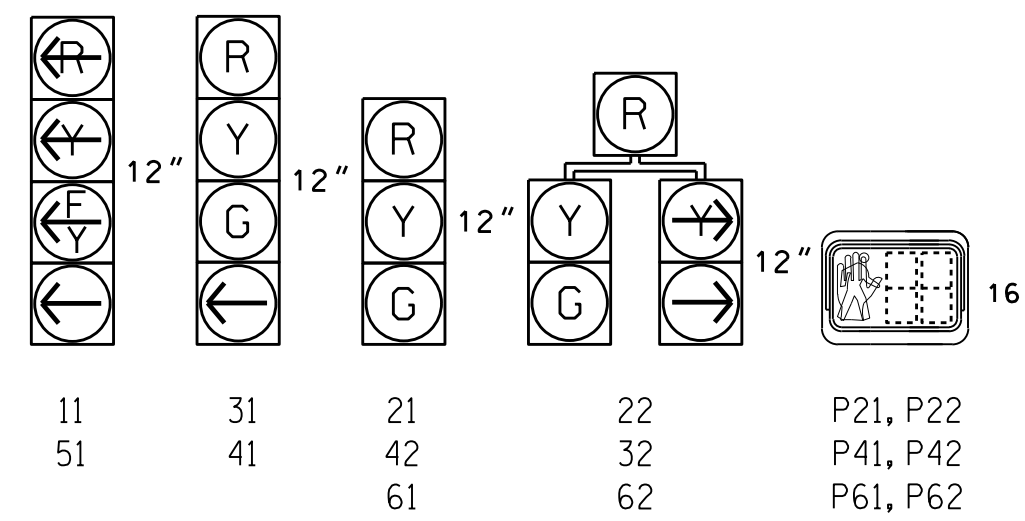
- ● DETECTED MOVEMENT
- ○ UNDETECTED MOVEMENT (OVERLAP)
- ○ UNSIGNALIZED MOVEMENT
- ○ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	02+5	02+6	03	04	F LASH
11	-	-	F	F	R	Y
21	R	R	G	G	R	Y
22	R	R	G	G	R	Y
31	R	R	R	G	R	Y
32	R	R	R	G	R	Y
41	R	R	R	R	G	R
42	R	R	R	R	G	R
51	-	-	F	F	R	Y
61	R	R	R	G	R	Y
62	R	R	R	G	R	Y
P21, P22	DW	DW	W	DW	DW	DRK
P41, P42	DW	DW	DW	DW	W	DRK
P61, P62	DW	W	W	DW	DW	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



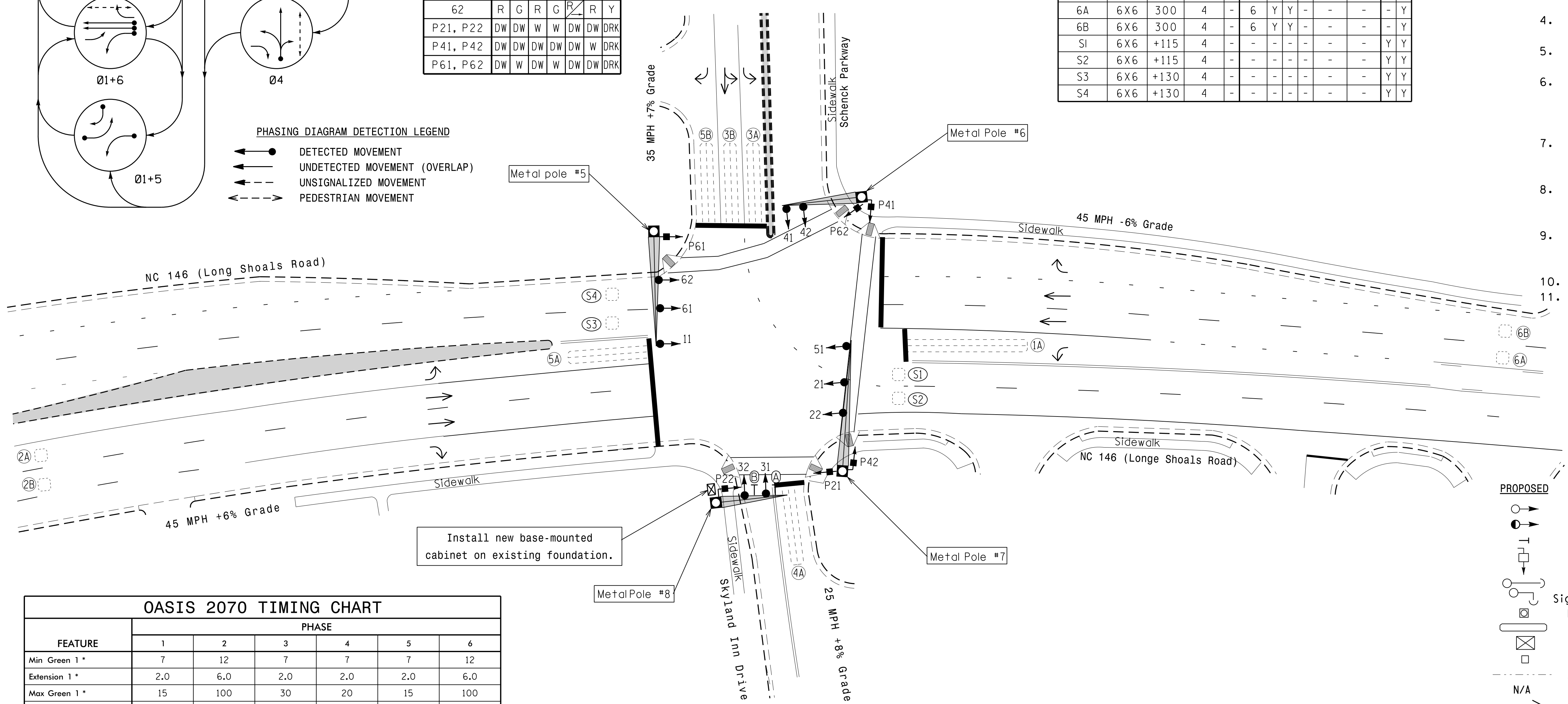
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION FULL TIME DELAY	STRETCH TIME			DELAY TIME
1A	6X60	0	2-4-2	-	1	Y	Y	-	15	-	Y
2A	6X6	300	5	-	2	Y	Y	-	-	-	Y
2B	6X6	300	5	-	2	Y	Y	-	-	-	Y
3A	6X40	0	2-4-2	-	3	Y	Y	-	-	-	Y
3B	6X40	0	2-4-2	-	3	Y	Y	-	-	-	Y
4A	6X40	0	2-4-2	-	4	Y	Y	-	10	-	Y
5A	6X40	0	2-4-2	-	5	Y	Y	-	15	-	Y
5B	6X40	0	2-4-2	-	5	Y	Y	-	15	-	Y
6A	6X6	300	4	-	6	Y	Y	-	-	-	Y
6B	6X6	300	4	-	6	Y	Y	-	-	-	Y
S1	6X6	+115	4	-	-	-	-	-	-	-	Y
S2	6X6	+115	4	-	-	-	-	-	-	-	Y
S3	6X6	+130	4	-	-	-	-	-	-	-	Y
S4	6X6	+130	4	-	-	-	-	-	-	-	Y

6 Phase Fully Actuated Asheville Signal System

NOTES

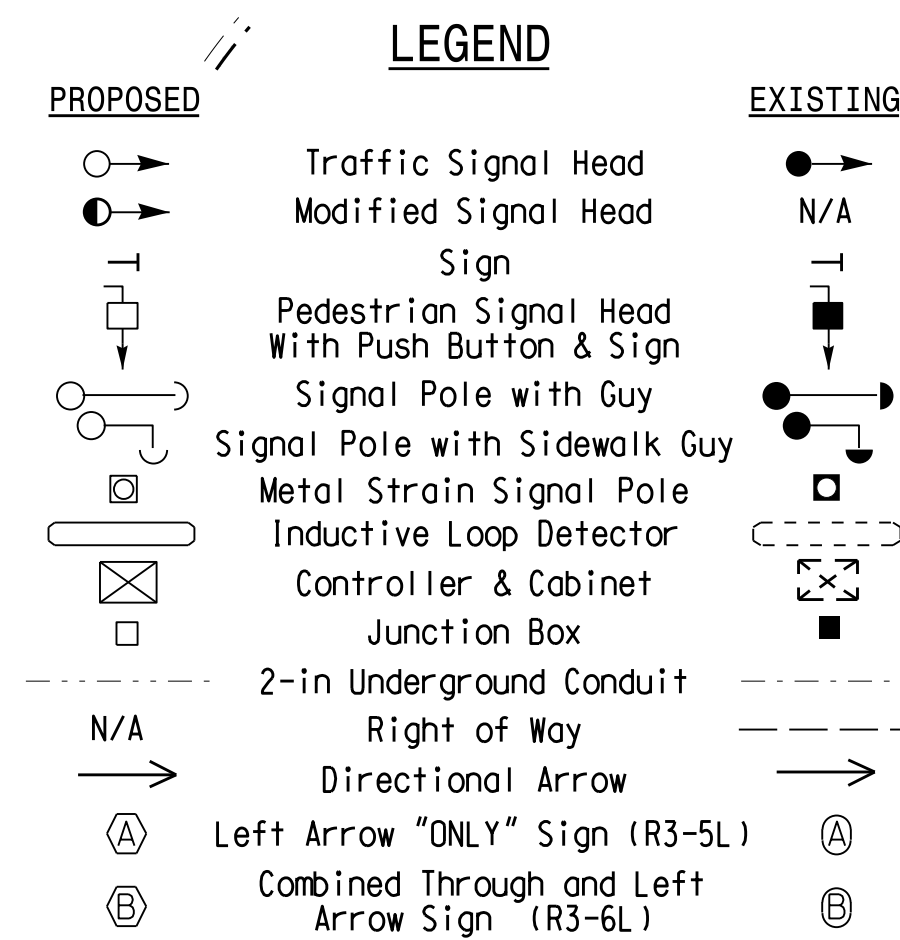
- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- In the event of loop replacement refer to the current ITS and Signals design Manual and submit a Plan of Record to Signal Design section.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pavement Markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



OASIS 2070 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	2.0	2.0	2.0	6.0
Max Green 1 *	15	100	30	20	15	100
Yellow Clearance	3.1	5.1	3.5	3.0	3.0	5.1
Red Clearance	3.1	1.7	2.8	3.2	2.8	1.7
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	7	-	7	-	7
Don't Walk 1	-	8	-	25	-	20
Seconds Per Actuation *	-	1.5	-	-	-	1.5
Max Variable Initial *	-	34	-	-	-	34
Time Before Reduction *	-	20	-	-	-	20
Time To Reduce *	-	30	-	-	-	30
Minimum Gap	-	3.0	-	-	-	3.0
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW
Dual Entry	-	-	-	-	-	-
Simultaneous Gap	ON	ON	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.



Signal Upgrade

NC 146 (Long Shoals Road) at Schenck Parkway / Skyland Inn Drive

Division 13 Buncombe County Asheville

PLAN DATE: May 2016 REVIEWED BY: P. Alexander

PREPARED BY: M. Mahbooba REVIEWED BY:

REVISIONS: INIT. DATE

DATE: 9/7/2016

SIG. INVENTORY NO. 13-1126

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

THOMAS J. WILLIAMS

ENGINEER

024393

DATE: 9/7/2016

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