

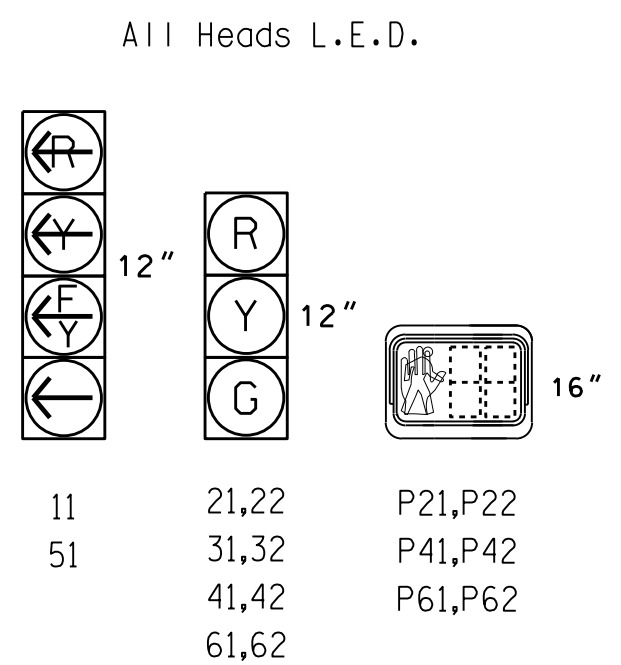
6 Phase Fully Actuated Asheville Signal System

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 the 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.

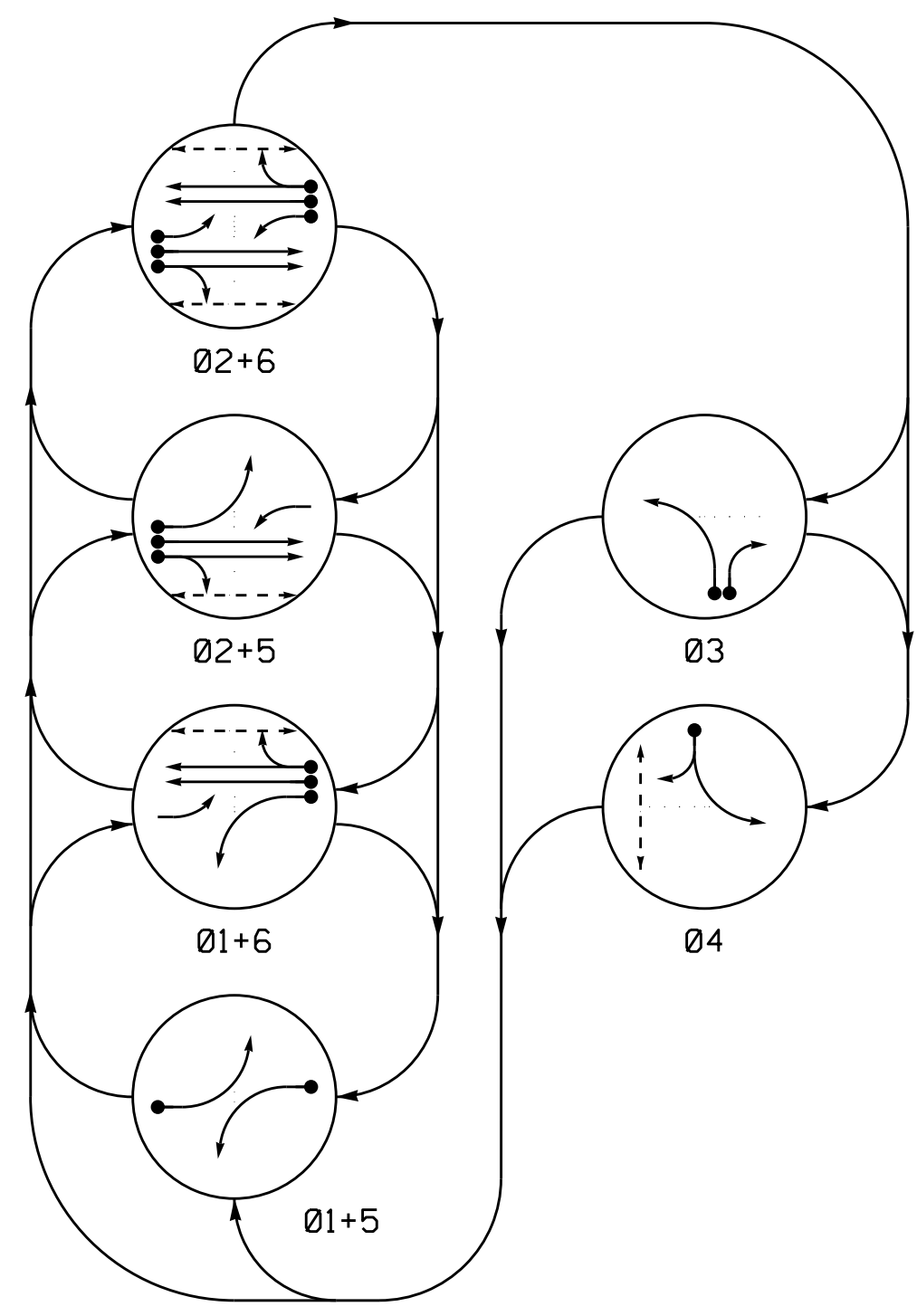
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6x60	0	2-4-2	-	1	Y	Y	-	-	15	-	Y
2A	6x6	276	EXIST	-	2	Y	Y	-	-	-	-	Y
2B	6x6	276	EXIST	-	2	Y	Y	-	-	-	-	Y
3A	6x30	+9	2-4-2	-	3	Y	Y	-	-	3	-	Y
3B	6x30	+9	2-4-2	-	3	Y	Y	-	-	15	-	Y
4A	6x40	0	2-4-2	-	4	Y	Y	-	-	10	-	Y
5A	6x60	+30	2-4-2	-	5	Y	Y	-	-	15	-	Y
6A	6x6	305	EXIST	-	6	Y	Y	-	-	-	-	Y
6B	6x6	305	EXIST	-	6	Y	Y	-	-	-	-	Y

SIGNAL FACE I.D.



SIGNAL FACE	PHASE					
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø3	Ø4
11	←	←	←	←	←	←
21,22	R	R	G	G	R	R
31,32	R	R	R	R	G	R
41,42	R	R	R	R	G	R
51	←	←	←	←	←	←
61,62	R	G	R	G	R	Y
P21,P22	DW	DW	W	W	DW	DRK
P41,P42	DW	DW	DW	DW	DW	DRK
P61,P62	DW	W	DW	W	DW	DRK

PHASING DIAGRAM

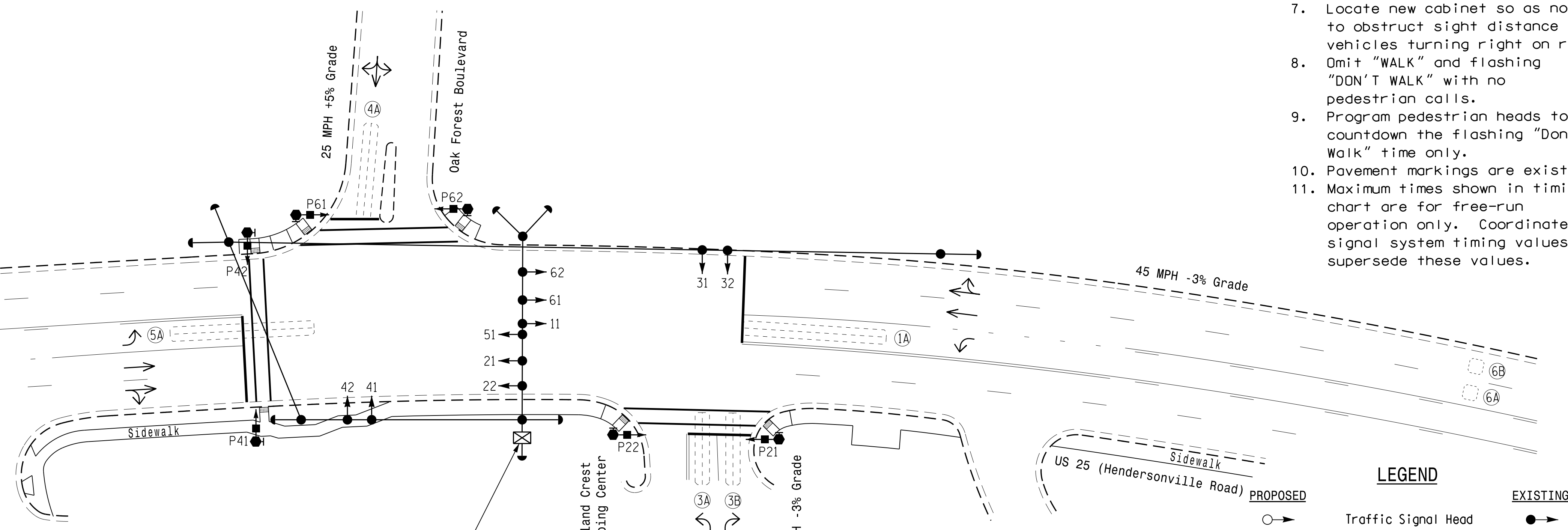


PHASING DIAGRAM DETECTION LEGEND

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

OASIS 2070 TIMING CHART						
FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1 *	7	12	7	7	7	12
Extension 1 *	1.0	6.0	2.0	2.0	2.0	6.0
Max Green 1 *	15	90	20	25	15	90
Yellow Clearance	3.0	4.8	3.3	3.0	3.0	4.8
Red Clearance	1.6	3.1	4.3	3.9	2.6	3.1
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	7	-	7	-	7
Don't Walk 1	-	13	-	16	-	14
Seconds Per Actuation *	-	1.5	-	-	-	1.5
Max Variable Initial *	-	34	-	-	-	34
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	-	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.



Install new base-mounted cabinet on existing foundation.

LEGEND	
PROPOSED	EXISTING
○ →	● →
● →	N/A
—	—
+	+
□ →	■ →
○ →	○ →
○ →	○ →
⊗	⊗
□	□
N/A	N/A
→	→
○	●

Signal Upgrade

US 25 (Hendersonville Road) at Oak Forest Boulevard/Skyland Crest Shopping Center

Division 13 Buncombe County Asheville

PLAN DATE: January 2016 REVIEWED BY: T. Williams

PREPARED BY: M. Mahbooba REVIEWED BY:

DocuSigned by:  
S. J. Williams 8/17/2016

SIG. INVENTORY NO. 13-1059

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