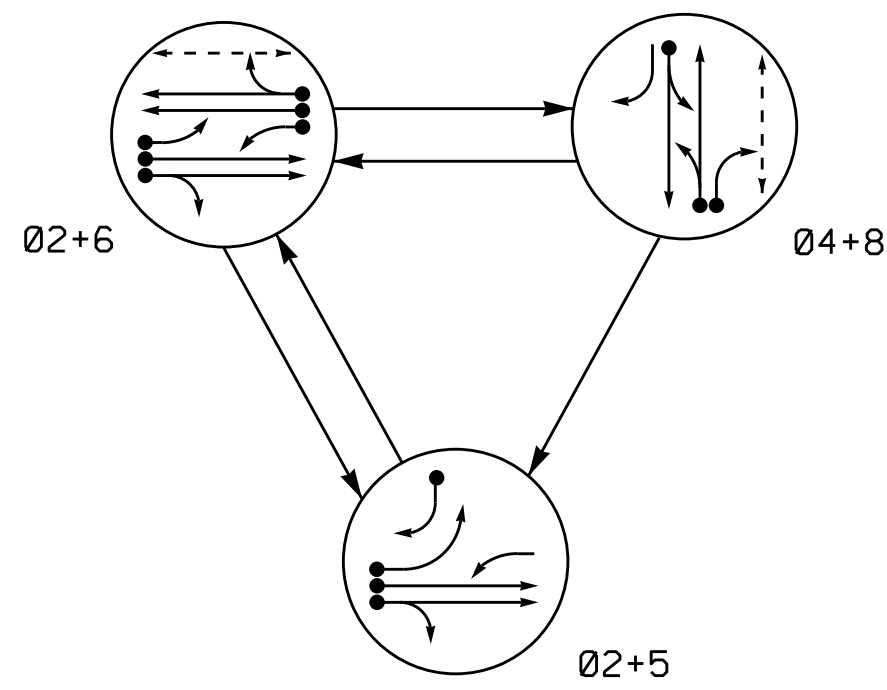
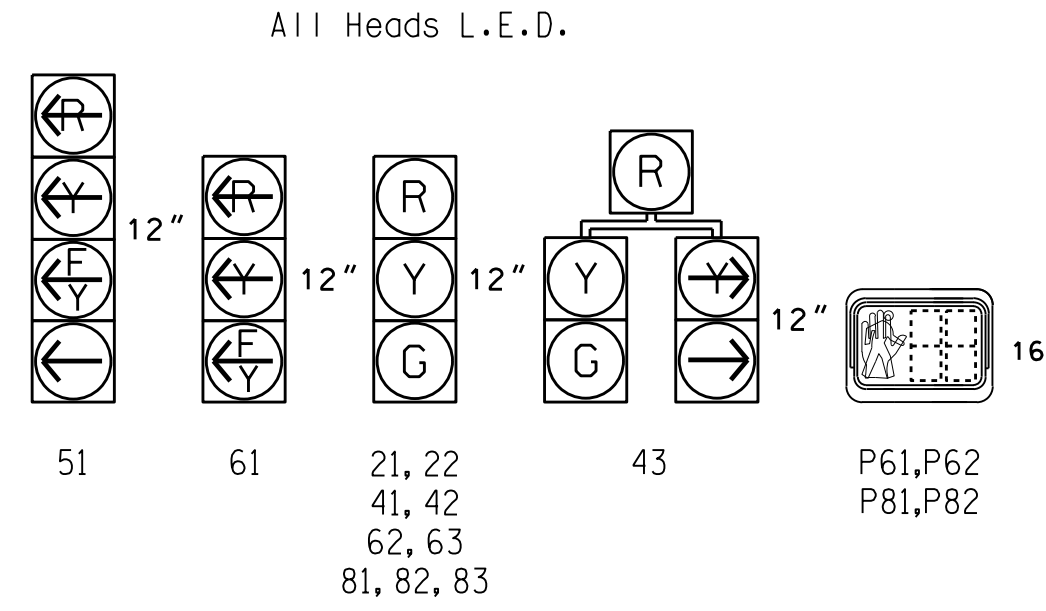


PHASING DIAGRAM



SIGNAL FACE	PHASE				
	Ø 2 + 5	Ø 2 + 6	Ø 4 + 8	Ø 2 + 5	Ø 4 + 8
21, 22	G	G	R	Y	
41, 42	R	R	G	R	
43	R	R	G	R	
51	←	←	←	←	
61	←	←	←	←	
62,63	R	G	R	Y	
81,82,83	R	R	G	R	
P61,P62	DW	W	DW	DRK	
P81,P82	DW	DW	W	DRK	

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

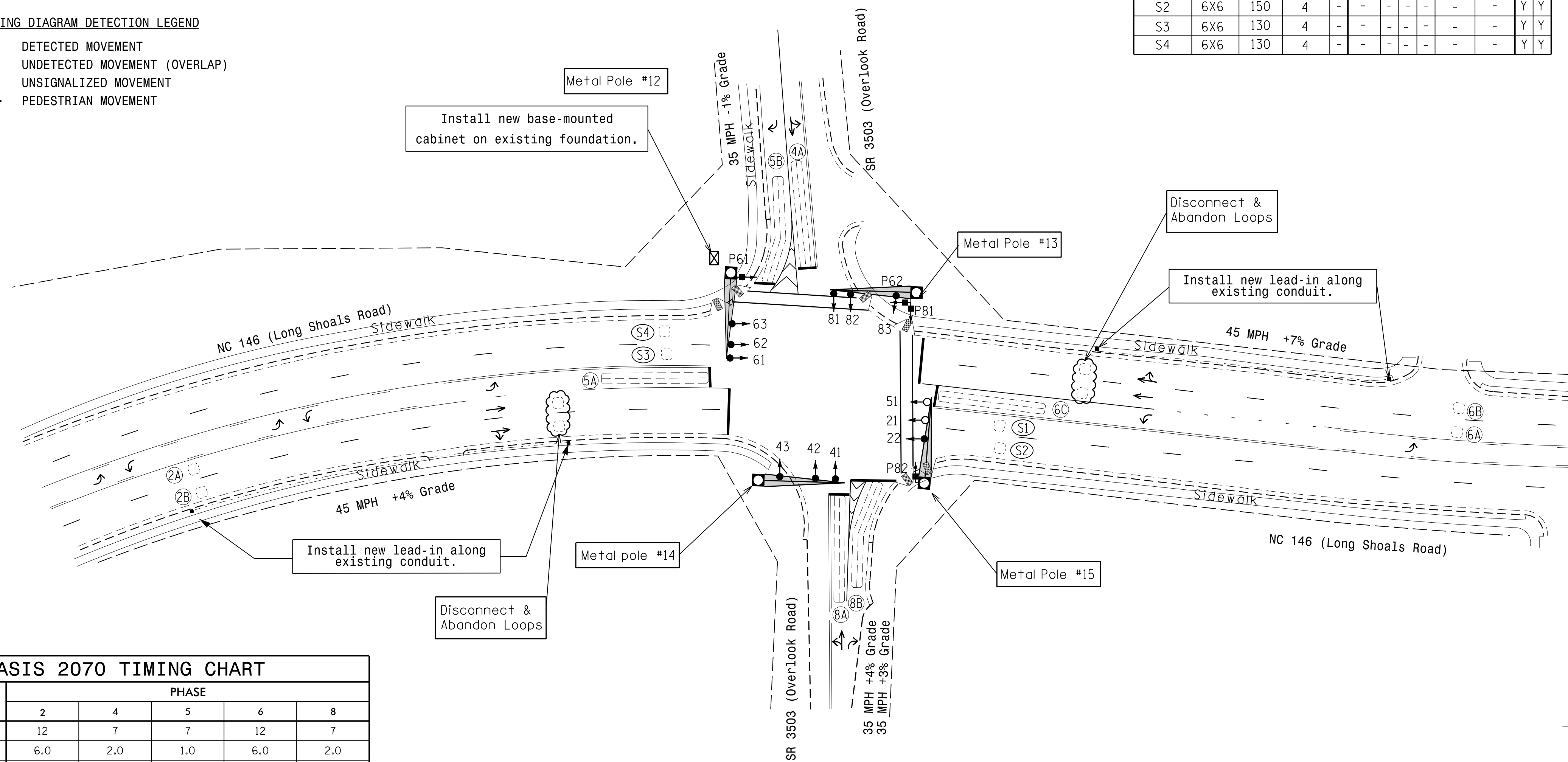
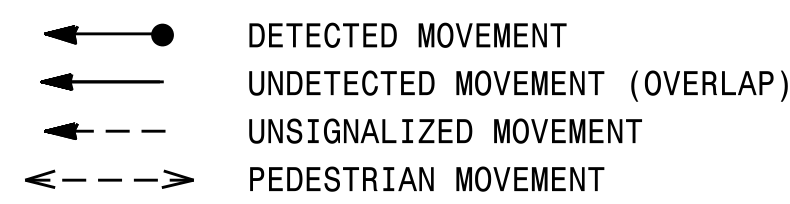
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING					SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME			DELAY TIME
2A	6X6	300	5	-	2	Y	Y	-	-	-	-	Y
2B	6X6	300	5	-	2	Y	Y	-	-	-	-	Y
4A	6X60	0	2-4-2	-	4	Y	Y	-	-	3	-	Y
5A	6X60	0	2-4-2	-	5	Y	Y	-	-	15	-	Y
5B	6X60	0	2-4-2	-	5	Y	Y	-	-	15	-	Y
6A	6X6	300	5	-	6	Y	Y	-	-	-	-	Y
6B	6X6	300	5	-	6	Y	Y	-	-	-	-	Y
6C	6X60	0	2-4-2	-	6	Y	Y	Y	-	3	-	Y
8A	6X60	0	2-4-2	-	8	Y	Y	-	-	3	-	Y
8B	6X60	0	2-4-2	-	8	Y	Y	-	-	10	-	Y
S1	6X6	150	4	-	-	-	-	-	-	-	-	Y
S2	6X6	150	4	-	-	-	-	-	-	-	-	Y
S3	6X6	130	4	-	-	-	-	-	-	-	-	Y
S4	6X6	130	4	-	-	-	-	-	-	-	-	Y

3 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 5 may be lagged.
- Reposition existing signal head numbered 22.
- 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.

PHASING DIAGRAM DETECTION LEGEND

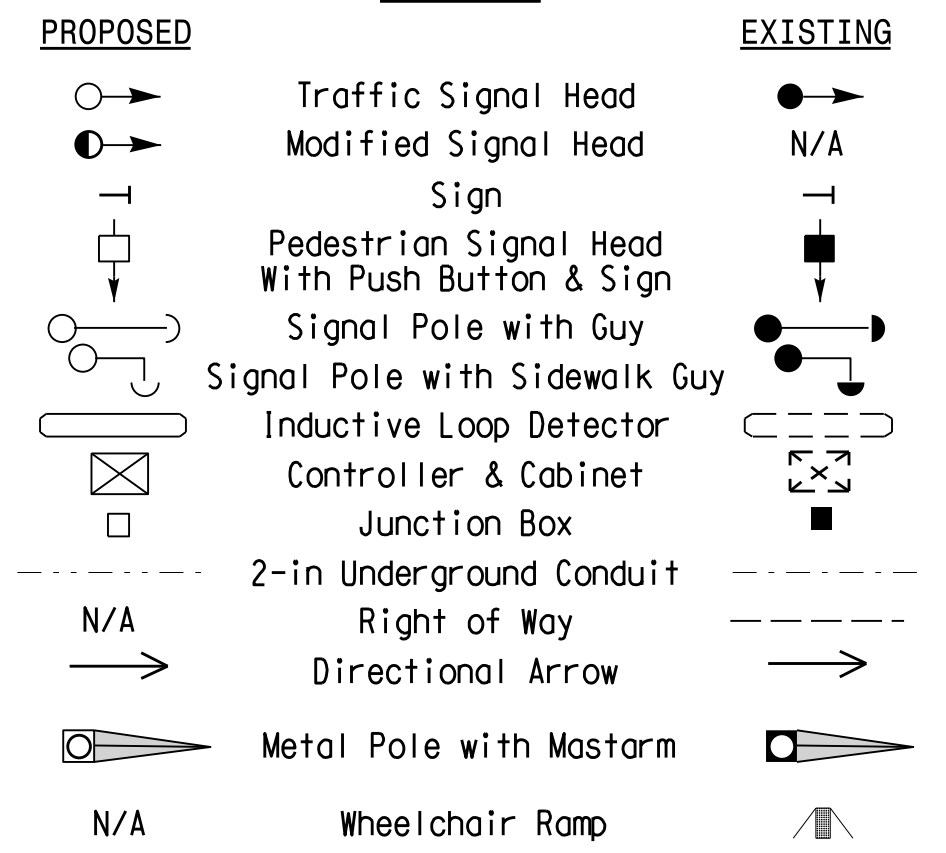


OASIS 2070 TIMING CHART

FEATURE	PHASE				
	2	4	5	6	8
Min Green 1 *	12	7	7	12	7
Extension 1 *	6.0	2.0	1.0	6.0	2.0
Max Green 1 *	90	25	30	90	25
Yellow Clearance	4.4	3.9	3.0	4.4	3.9
Red Clearance	1.6	2.3	2.8	1.6	2.3
Red Revert	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	7	7
Don't Walk 1	-	-	-	13	19
Seconds Per Actuation *	1.8	-	-	1.8	-
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	-	ON	-	-	ON
Simultaneous Gap	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.

LEGEND



Signal Upgrade

NC 146 (Long Shoals Road) at SR 3503 (Overlook Road)

Division 13 Buncombe County Asheville

PLAN DATE: June 2016 REVIEWED BY: P. Alexander

PREPARED BY: M. Mahbooba REVIEWED BY:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 024393
THOMAS J. WILLIAMS

Discussed by: S. J. Williams 9/19/2016
DATE: _____
SIG. INVENTORY NO. 13-0444

SCALE 0 40
1" = 40'

10-050-2016-08-19
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