PHASING DIAGRAM

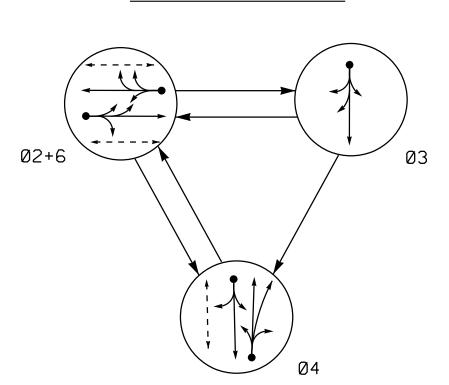


TABLE OF OPERATION							
	PHASE						
SIGNAL FACE	ØN+6	03	Ø 4	エのひしょ			
21, 22	G	R	R	Υ			
31, 32	R	G	R	R			
41,42,43,44,45	R	R	G	R			
61, 62	G	R	R	Υ			
P21, P22	W	DW	DW	DRK			
P41, P42	DW	DW	W	DRK			
P61, P62	W	DW	DW	DRK			

		_
W - Walk		
DW - Don't	Walk	
DRK – Dark		

SIGNAL FACE I.D.

All Heads L.E.D. Accesible Pedestrian Signals

G	
21, 22	P21, P22
31,32	P41, P42
41, 42, 43, 44, 45	P61, P62
61,62	

	P21, P22
	P41, P42
4, 45	P61, P62

OASIS 2070E LOOP & DETECTOR INSTALLATION CHAP								IAF	RΤ				
	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
	2A	6×6	70	4	-	2	Υ	Υ	-	-	ı	ı	Υ
	3A	6×40	+5	2-4-2	-	3	Υ	Υ	-	_	3	ı	Υ
	4A	6×40	+5	2-4-2	-	4	Υ	Υ	_	_	10	ı	Υ
	4B	6×40	0	2-4-2	-	4	Υ	Υ	_	_	10	ı	Υ
	6A	6×6	70	4	-	6	Υ	Υ	-	-	-	-	Υ

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

UNSIGNALIZED MOVEMENT

<−−> PEDESTRIAN MOVEMENT

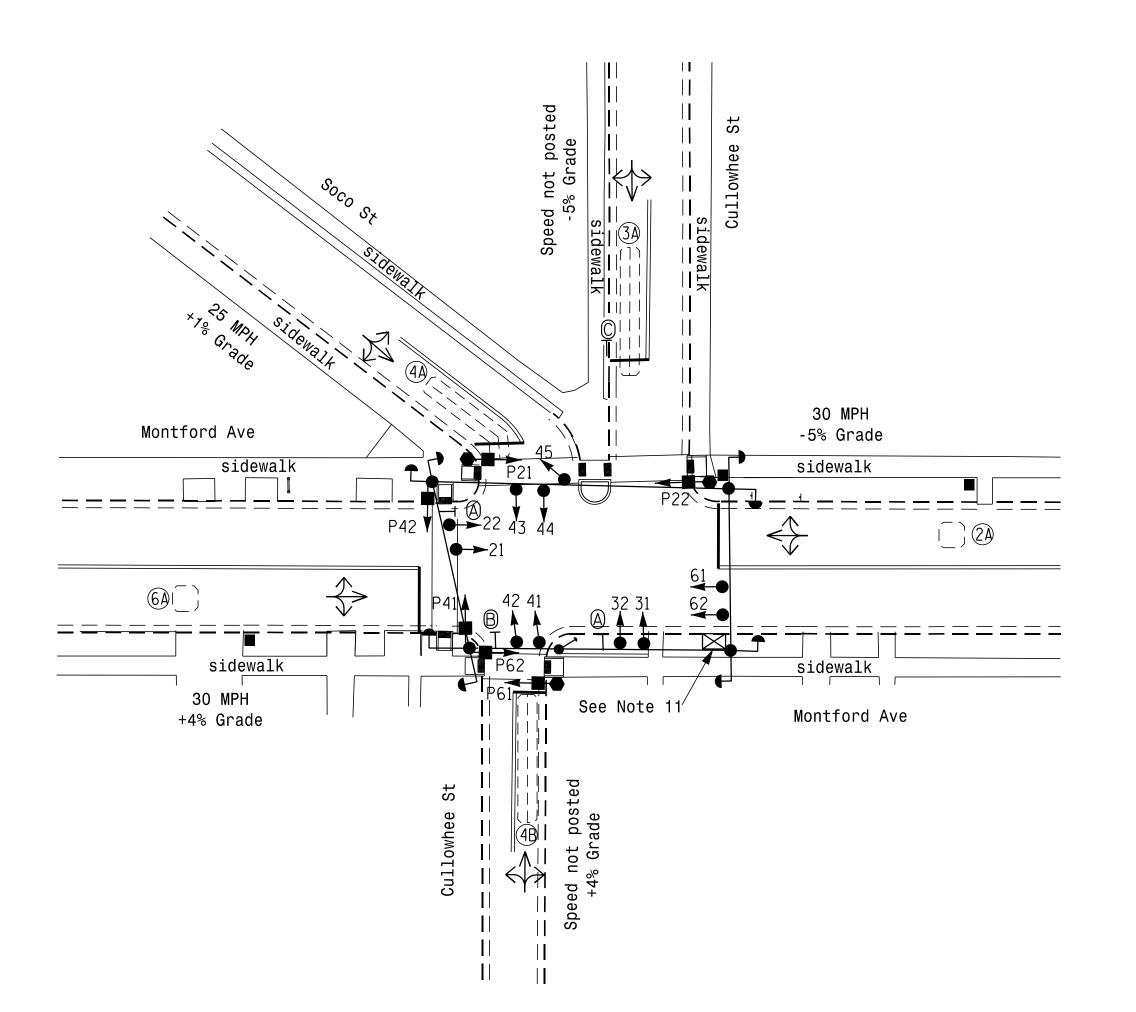
ACCES	SIBLE PEDESTRIAN	SIGNAL OPERATION		
SIGNAL FACE	INTERVAL	MESSAGE/TONE*		
P21, P22	Walk	Percussive tone repeated @ 8-10 ticks/sec		
P61, P62	Flashing Don't Walk/Don't Walk	Pushbutton Locator Tone Only**		
D41 D40	Walk	Percussive tone repeated @ 8-10 ticks/sec		
P41, P42	Flashing Don't Walk/Don't Walk	Pushbutton Locator Tone Only**		

st Volume should be set to 5 db over the ambient noise level.

** Pushbutton locator tones shall have a duration of 0.15 seconds or less, and shallrepeat at 1-second intervals.

OASIS	2070E	TIMIN	G CHAR	T	
	PHASE				
FEATURE	2	3	4	6	
Min Green 1 *	10	7	7	10	
Extension 1 *	3.0	2.0	2.0	3.0	
Max Green 1 *	45	20	25	45	
Yellow Clearance	3.8	3.5	3.0	3.3	
Red Clearance	2.2	3.0	2.4	2.9	
Red Revert	2.0	2.0	2.0	2.0	
Walk 1 *	5	-	5	5	
Don't Walk 1	15	-	9	4	
Seconds Per Actuation *	-	-	-	-	
Max Variable Initial *	-	-	-	_	
Time Before Reduction *	-	-	-	-	
Time To Reduce *	-	-	-	-	
Minimum Gap	-	-	-	-	
Recall Mode	MIN RECALL	-	-	MIN RECALL	
Vehicle Call Memory	YELLOW	-	-	YELLOW	
Dual Entry	-	-	-	-	
Simultaneous Gap	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.



12 BROAD STREET ASHEVILLE, NORTH CAROLINA 28801

(828) 254-2201

FAX (828) 254-4562

3 Phase Fully Actuated (Asheville Signal System)

PROJECT REFERENCE NO.

U-4715B

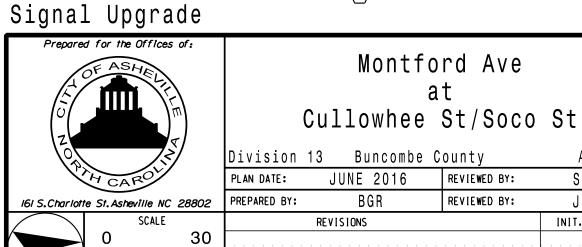
NOTES

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Set all detector units to presence mode.
- 4. 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.
- 5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 6. Pavement markings are existing.
- 7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 8. The order of Phase 3 and Phase 4 may be reversed.
- 9. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- 10. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 11. Locate new cabinet on existing foundation.
- 12. The yellow change interval for Phase 4 may be decreased by 0.2 seconds per week until the desired value is reached.

LEGEND <u>PROPOSED</u> <u>EXISTING</u> Traffic Signal Head \bigcirc Modified Signal Head N/A Pedestrian Signal Head With Push Button & Sign Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector \boxtimes Controller & Cabinet Junction Box 2-in Underground Conduit _ - - - - - - -N/A Right of Way Directional Arrow \bigcirc Signal Pedestal "NO TURN ON RED" Sign (R10-11) No U-Turn Sign (R3-4) "STOP HERE ON RED" Sign (R10-6)

SMH

JBV



022599 Asheville INIT. DATE DATE SIGNATURE

