

3 Phase Fully Actuated Asheville Signal System

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. Enable Backup Protect for phase 6 to allow the controller to clear from phase 2+6 to phase 1+6 by progressing through an all red display.
- 4. Set all detector units to presence mode.
- 5. 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.
- 6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 7. Pavement markings are existing.
- 8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

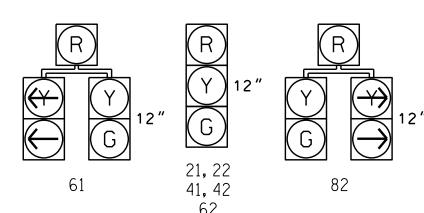
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
INDUCTIVE LOOPS DE						DETECTOR PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1 /	6X60	+5	2-4-2	-	1	Υ	Υ	-	-	15	-	Υ
1 A					6	Υ	Υ	-	-	-	-	Υ
2A, 2B	6X6	70	EXISTING	-	2	Υ	Υ	-	=	-	-	Υ
2C	6X60	+5	2-4-2	-	2	Υ	Υ	-	-	3	-	Υ
4A	6X25	0	2-4-2	-	4	Υ	Υ	-	-	3	-	Υ
4B	6X25	0	2-4-2	-	4	Υ	Υ	-	-	10	-	Υ
6A,6B	6X6	70	EXISTING	-	6	Υ	Υ	_	_	-	_	Υ
8.8	6X60	+5	2-4-2	-	8	Υ	Υ	_		3	_	Υ
8B	6X60	+5	2-4-2	-	8	Υ	Υ	_	_	15	-	Υ

US 19-23-74 (Patton Avenue)

TABLE OF OPERATION PHASE SIGNAL FACE 21, 22 41, 42 82

SIGNAL FACE I.D.

All Heads L.E.D.



Commercial Drive

Speed Unposted -2% Grade

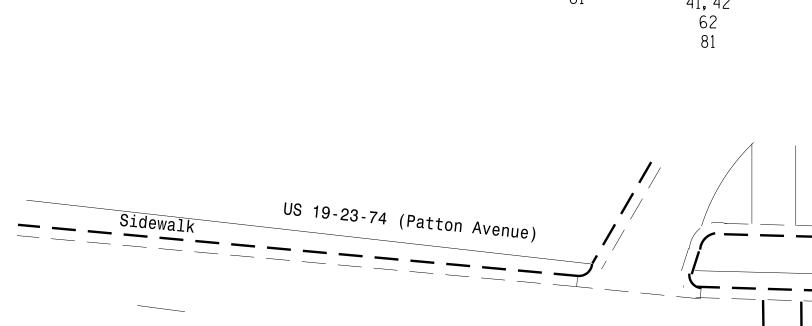
(Design Speed 15 MPH)

22-

Install new base-mounted

cabinet on existing foundation.

R Y 12"	R Y 12" 21, 22 41, 42 62 81	12" 82



35 MPH +7% Grade

MIN RECALL

YELLOW

ON

ON

ON

OASIS 2070 TIMING CHART									
	PHASE								
FEATURE	1	2	4	6	8				
Min Green 1 *	7	10	7	10	7				
Extension 1 *	1.0	3.0	1.0	3.0	1.0				
Max Green 1 *	30	68	15	68	15				
Yellow Clearance	3.1	4.3	3.4	4.3	3.4				
Red Clearance	1.9	2.4	2.8	2.4	2.8				
Red Revert	2.0	2.0	2.0	5.0	2.0				
Walk 1 *	-	-	-	-	-				
Don't Walk 1	-	-	-	-	-				
Seconds Per Actuation *	-	-	-	-	-				
Max Variable Initial *	-	-	-	-	-				
Time Before Reduction *	=	-	-	-	-				
Time To Reduce *	-	-	-	-	-				
Minimum Gap	-	-	-	-	-				

PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

UNSIGNALIZED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

DETECTED MOVEMENT

← − − > PEDESTRIAN MOVEMENT

Sidewalk

02+6

* 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

ON

ON

MIN RECALL

YELLOW

ON

ON

PROPOSED \bigcirc

<u>EXISTING</u> Traffic Signal Head Modified Signal Head Sign Pedestrian Signal Head With Push Button & Sign Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector Controller & Cabinet Junction Box 2-in Underground Conduit

Right of Way

Directional Arrow

LEGEND

Signal Upgrade

1"=20'

US 19-23-74 (Patton Avenue) South Bear Creek Road

N/A

Commercial Drive Asheville July 2016 REVIEWED BY: R.N. Zinser

ivision 13 Buncombe County PLAN DATE: 750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: Jeff Spence REVIEWED BY: REVISIONS INIT. DATE

SEAL 043914 Richard N. Finser 10/10/2016

SIG. INVENTORY NO. |3-08|8

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

SIGNATURES COMPLETED

Recall Mode

Dual Entry

Vehicle Call Memory

Simultaneous Gap