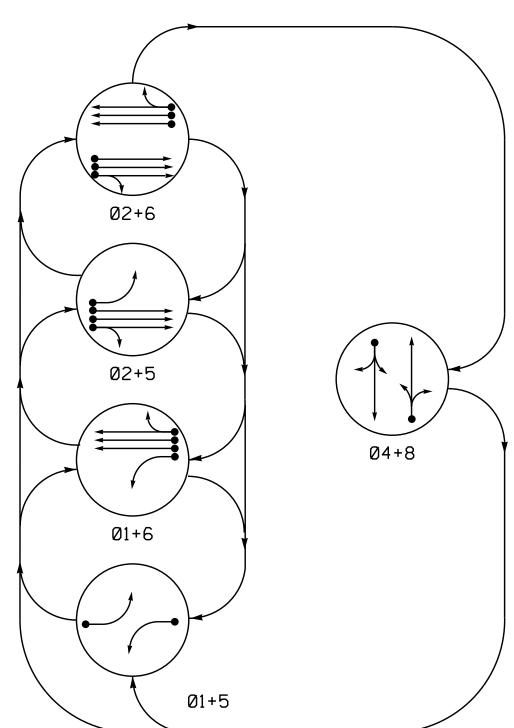


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

≪--> PEDESTRIAN MOVEMENT

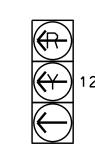
UNSIGNALIZED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

TABLE OF OPER					ATION			
	PHASE							
SIGNAL FACE	Ø 1 + 5	01+6	◎ ○+5	ØN+6	04+8	止しなのエ		
11	←	—	₹		₩	-R		
21,22,23	R	R	G	G	R	Υ		
41,42	R	R	R	R	G	R		
51	-	₩	—		₩			
61,62,63	R	G	R	G	R	Υ		
81,82	R	R	R	R	G	R		

SIGNAL FACE I.D.

All Heads L.E.D.



R Y 12"

21,22,23 41,42 61,62,63 81,82

DISTANCE SIZE FROM LOOP STOPBAR 6X60 0 2-4-2 -6X6 300 EXISTING 2A 2B 6X6 300 EXISTING 6X6 300 EXISTING 4A 6X60 0 2-4-2 6X60 0 2-4-2 6X6 300 EXISTING 6X6 300 EXISTING -6X6 300 EXISTING - 6 Y Y 8A 6X60 0 2-4-2 - 8 Y Y

INDUCTIVE LOOPS

OASIS 2070 LOOP & DETECTOR INSTALLATION

DETECTOR PROGRAMMING

Install new base-mounted cabinet on existing foundation.

Druid Drive

Sidewalk

81 82

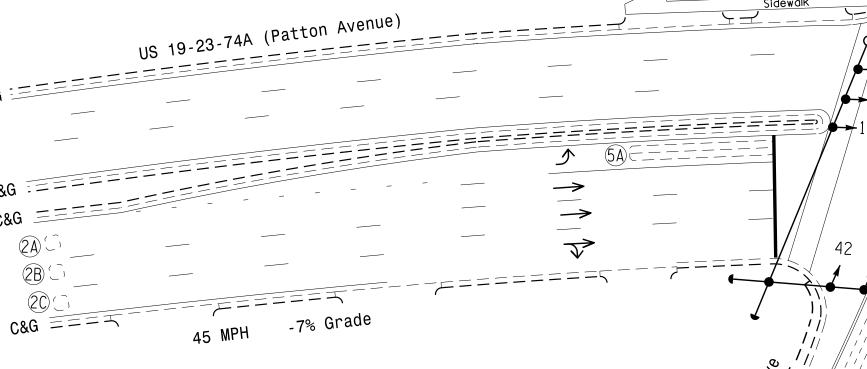
Sidewalk

81 82

Sidewalk

Sidewalk

81 82



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81 82	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
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$51 \leftarrow 6A$	_
21 -	C&G C&G
22 -	C&G
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
US 19-23-74A (Patton Avenue)	C&G

5 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.
- 3. Phase 1 and/or phase 5 may be lagged.
- 4. Reposition existing signal heads numbered 21, 22, 61 & 62.
- 5. Set all detector units to presence mode.
- 6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 7. The cabinet should be designed to include an Auxiliary Output file for future use.
- 8. Pavement markings are existing.
- 9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

	LEGEND	
<u>PROPOSED</u>		EXISTING
\bigcirc	Traffic Signal Head	
O >	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
$\bigcirc \hspace{-1em} \longrightarrow \hspace{-1em})$	Signal Pole with Guy	•
	Signal Pole with Sidewalk Guy	y —
	Inductive Loop Detector	CIIIID
	Controller & Cabinet	K K K
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
\longrightarrow	Directional Arrow	\longrightarrow
→	Pavement Marking Arrow	→
$\langle A \rangle$	"STOP" Sign (R1-1)	\triangle
B	"YIELD" Sign (R1-2)	B

SIG. INVENTORY NO. 13-0041

	OASIS	2070	TIMING	G CHART	Γ		
	PHASE						
FEATURE	1	2	4	5	6	8	
Min Green 1 *	7	12	7	7	12	7	
Extension 1 *	1.0	6.0	2.0	1.0	6.0	1.0	
Max Green 1 *	20	90	25	20	90	25	
Yellow Clearance	3.0	5.2	3.0	3 . 2	5.2	4.5	
Red Clearance	2.8	1.3	3.4	3 . 2	1.3	2.2	
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	
Walk 1 *	-	-	-	-	-	_	
Don't Walk 1	-	-	-	-	-	_	
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	-	-	ON	-	-	ON	
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

Prepared In the Offices of:

US 19-23-74A (Patton Avenue)

at

Druid Drive

/ Laurel Lood Road

Division 13 Buncombe County Asheville

PLAN DATE: April 2016 REVIEWED BY: T. J. Williams

SCALE

REVISIONS

DOCUMENT NOT CONSIDERED

FINAL UNLESS ALL

SIGNATURES COMPLETED

SEAL

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INIT. DATE

Docusigned by:

Docusigned

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5-AUG-2016 08:26 :*ITS&SU*ITS Signals*Signal Desig epierce