PROJECT REFERENCE NO. SHEET NO. Sig. 105.0 U-4715 B

5 Phase

Fully Actuated

Asheville Signal System

NOTES

"Standard Specifications for Roads and Structures" dated January 2012.

otherwise directed by the Engineer.

1. Refer to "Roadway Standard Drawings

night flashing operation unless

NCDOT" dated January 2012 and

2. Do not program signal for late

3. Phase 1 and/or phase 5 may be

numbered 22 and 62.

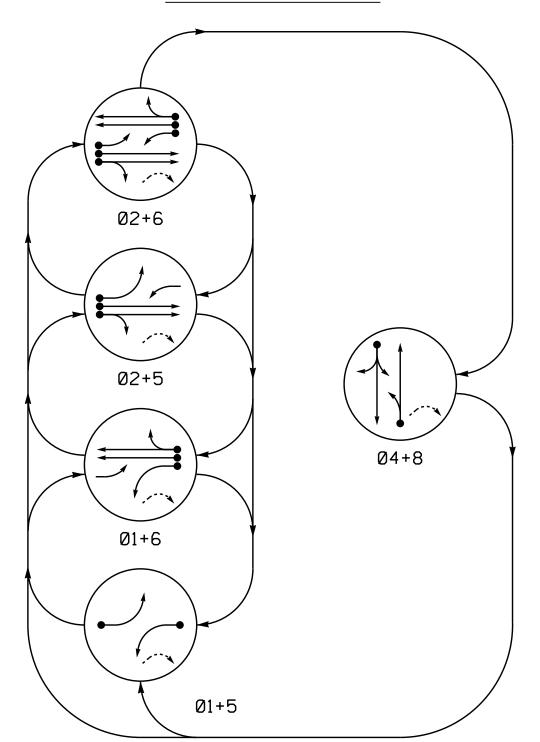
4. Reposition existing signal heads

5. Set all detector units to presence

lagged.

mode.

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND DETECTED MOVEMENT UNDETECTED MOVEMENT (OVERLAP)

UNSIGNALIZED MOVEMENT ←−−> PEDESTRIAN MOVEMENT

TABLE OF OPERATION										
		PHASE								
SIGNAL FACE	Ø 1 + 5	Ø 1 + 6	◎ 2+5	∞ N+6	04+8	下しせいエ				
11	—	—	F	ц ≻	#	- ¥				
21, 22	R	R	G	G	R	Υ				
41, 42	R	R	R	R	G	R				
51	-	F	-	F	₹	- Y				
61, 62	R	G	R	G	R	Υ				
81, 82	R	R	R	R	G	R				

	0P	ER.	AT:	10I	1
		PHA	SE		
—) 	0	Ø 2	Ø 2	0	FĻ
+ 5	6	5	6	8	J Д S Н
_	—	누	F	≺R	- ¥
?	R	G	G	R	Υ

12"	R Y 12"
11	21, 22
51	41, 42
	61, 62
	81,82

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
1I	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 A	6X40	+5	2-4-2	_	1	Υ	Υ	ı	ı	15	-	Υ
1 A	0240	7.0	2-4-2	-	6	Υ	Υ	Υ	-	3	-	Υ
2A/S1	6X6	300	EXIST	-	2	Υ	Υ	-	-	ı	Υ	Υ
2B/S2	6X6	300	EXIST	-	2	Υ	Υ	-	-	ı	Υ	Υ
4A	6X40	+10	2-4-2	-	4	Υ	Υ	-	-	10	-	Υ
5A	6 7 4 0	+5	2-4-2	-	5	Υ	Υ	-	-	15	-	Υ
SA	6X40	T 7	Z-4-Z 	-	2	Υ	Υ	Υ	_	3	-	Υ
6A/S3	6X6	300	EXIST	-	6	Υ	Υ	_	-		Υ	Υ
6B/S4	6X6	300	EXIST	-	6	Υ	Υ	-			Υ	Υ
88	6X40	+5	2-4-2	_	8	Υ	Υ	_	-	3	_	Υ

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 Install new base-mounted values supersede these values. cabinet on existing foundation. US 70 (Tunnel Road) 45 MPH -1% Grade \rightarrow

	OASIS	2070	TIMING	CHAR1	_			
	PHASE							
FEATURE	1	2	4	5	6	8		
Min Green 1 *	7	12	7	7	12	7		
Extension 1 *	2.0	6.0	2.0	2.0	6.0	2.0		
Max Green 1 *	30	90	30	15	90	30		
Yellow Clearance	3.0	4.6	4.6	3.0	4.6	4.6		
Red Clearance	1.6	1.0	1.6	1.6	1.0	1.6		
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

LEGEND <u>PROPOSED</u> <u>EXISTING</u> \bigcirc Traffic Signal Head **●** Modified Signal Head N/A Sign Pedestrian Signal Head With Push Button & Sign Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector K×7 Controller & Cabinet Junction Box 2-in Underground Conduit

Right of Way Directional Arrow "YIELD" Sign (R1-2)

Signal Upgrade US 70 (Tunnel Road) PLAN DATE:

NC 81 (Swannanoa River Road) Knauth Road ivision 13 Buncombe County Asheville June 2016 REVIEWED BY: T.J. Williams 750 N.Greenfleid Pkwy.Garner.NC 27529 PREPARED BY: R.N. Zinser REVIEWED BY:

N/A

REVISIONS

043914 INIT. DATE

SIG. INVENTORY NO.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

SIGNATURES COMPLETED

SEAL

US 70 (Tunnel Road)

1"=40'

is shown. Min Green for all other phases should not be lower than 4 seconds.