



n l n l n l	
o ysi ell a ra	
וחוולוכ ח	
1101909	
*** MILLE & TIUTI . CULT & CULT AND LITIU*_ I SAUTUUD 553	
- I L I U*- I	
*TAL.	1
-RAL I	1
00.1	
**	
_	
cur r	

PHASING DIAGRAM					EV PREE (Mediu	MPT PH/ m Priority			TABLE OF OPERATION		<u>SIGNAL FACE I.D.</u>				DETECTOR INSTALLATION CHART DETECTOR PROGRAMMING								
		Ø4	+8			PRE (Ø1+	3 6) 5 5)	SIGNAL FACE 11 21, 22 * 41, 42 43, 44 51 61, 62 * 81, 82 83, 84 * See Not	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} \overline{A} \\ \overline{S} $	A	R (Y) (G) 12" (C) (C) (C) (C) (C) (C) (C) (C) (C) (C)	E.D.	LOOP 1 A 1 B 2 A 2 B 4 A 5 A 5 B 6 A 6 B 8 A 8 B	DIST/ SIZE FRO	ANCE TURNS Constraints DM 2 - 4 - 2 - D 2 - 4 - 2 - D EXIST -	PHASE - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 4 - 5 - 5 - 6 - 6 - 8	Ces -	DELAY AI TIME AI IN IN - I 3 I - I 3 I - I 3 I - I 3 I - I 3 I - I 3 I - I 3 I - I 3 I - I	JSE JAL OOT DED N - - N - - N - X N - - N - X N - - N - X N - - N - - N - - N - - N - - N - - N - - N - - N - - N - - N -	 X 		
	2+5		TOLB+OLD TOLB						US 29-74 (Fran	klin Boulevard)	45 MPH -9% Grade	S 1132 S 11 S 11	(Shannon Bradley Road) (Shannon Bradley Road) (Shannon Bradley Road)	5% Grade									
PHASIN 	IG DIAGRAM DE DETECTED MU UNDETECTED UNSIGNALIZI PEDESTRIAN	OVEMENT MOVEMENT (ED MOVEMENT	(OVERLAP)			2A_) (2B_)			♪ 								-						
										GRADE POE	SCING 88		Vo.										
			TIMING	CHAR PHAS							WPH mercial		Cincle, Son	rade stedy							_		
FEATURE Min Green *	1 7	2 12	4	5 7	6 12	8 7	TOLB	TOLD	 	<u>ئ</u>	, Com		(cle) son										
Walk *	-	-	-	-	-	-	-	-					5										
Ped Clear Veh. Extension *	- 2.0	- 6.0	- 1.0	- 2.0	- 6.0	- 1.0	- 0.0	- 0.0	Exi	FUNCTION t Phase(s)		E 3 PRE +6 2+0											
Max 1 *	20	120	20	25	120	20	N/A	N/A		eempt Override	IO												
Yellow Rod Clogr	3.1	3.9	5.5	3.0	5.1	5.5	4.1	3.7		lay Time d Clear Through Yellow) (—										
Red Clear Red Revert	3.0	1.5 2.0	3.0 2.0	1.1	1.0	1.3 2.0	2.6	2.6	Те	rminate Phases	1												
Actuations B4 Add *	-	_	_	-	_	_	-	_		trance Walk													
Seconds /Actuation * Max Initial *	-	1 . 5 34	_	-	1.5 34	-	-	_		trance Ped Clear trance Min Green		 1 1					Sign	al Upg	rade				
Max Initial * Time Before Reduction *	-	15	-	-	34 15	-	-	-		trance Yellow Change		.5* 25.5						Prepared F	or:	US	5 29-7		
Time To Reduce *	-	40	-	-	40	-	-	-		trance Red Clear nimum Dwell Time	25.	.5 * 25.5	*				2	Nobility and	Safety				
Minimum Gap Locking Detector	-	3.0 X	-	-	3.0 X			-		eempt Input Extension Time	** 2	22					, anspo		Divisio,	SR Patte	1135 erson		
Recall Position		IN RECALL	_		^ MIN RECALL	_	-	_		eempt Max Time		20 120			PLANS PREPARED IN			SCHAR OF TONNS	ettor	Divisio	on 12		
Dual Entry	-	-	X	-	-	X	-	-		t Yellow Change t Red Clear		.5 * 25.5 .5 * 25.5				Horn	750 N.Gre	enfield Pkwy.Go	8 ^{0°} 975:	PLAN DATE: 29 PREPARED B	May 3Y: SP Pe		
Simultaneous Gap * These values may be field	d adjusted. Do no	×	en and Extension	X on times for pl	hase 2 lower the	X an what is show	/ X vn.	X	* *	Time defaults to time used	for phase durir			4		Street, Suite 600			CALE 40		REVIS		
Min Green for all other pha		-							** F	rogram Timing on GPS De	etection Unit				Raleigh, NC 276 (919) 677-2000	01	N		'=40'				

(919) 677-2000

C-5703 7 Phase Fully Actuated w/ 2 Timed Overlaps and Emergency Vehicle Preemption Gastonia Signal System

PROJECT REFERENCE NO.

SHEET NO.

Sig.98.0

NOTES

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- 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 Signal 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 shall supersede these values.
- 8. Install new cabinet on the existing cabinet foundation.
- 9. All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
- 10. Install GPS emergency preemption system per manufacturer's instructions to achieve preemption needed, as shown in phasing diagram.
- 11. Existing signal heads 11, 23, 24, 31, 45, 46, 47, 48 have been relabeled to 51, 61, 62, 11, 81, 82, 83, 84, respectively.
- 12. Existing loops 1A, 1B, 2C, 2D, 3A, 3B, 4B, 4C have been relabeled to 5A, 5B, 6A, 6B, 1A, 1B, 8A, 8B respectively.
- 13. Signal heads numbered 41, 42, 81, and 82 are tethered.
- 14. City system data:
 - Controller Asset #: 1124.

