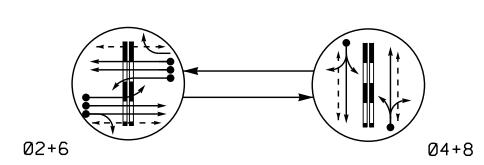
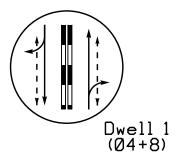
PHASING DIAGRAM



RAIL PREEMPT PHASES (High Priority)



<u>PHASING</u>	DIAGRAM	DETECTION	LEGEND	

←	DETECTED MOVEMENT
←	UNDETECTED MOVEMENT (OVERLAP)
←	UNSIGNALIZED MOVEMENT
€ >	PEDESTRIAN MOVEMENT

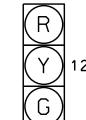
TABLE OF OPERATION						
	PHASE					
SIGNAL FACE	Ø2+6	Ø 4 + 8	□ w @ l l l	FLASH		
21	F	#	#	∢ R		
22, 23, 24	G	R	R	R		
41, 42	R	G	G	R		
61	┸	\$	₩	≺R		
62, 63, 64	G	R	R	R		
81, 82	R	G	G	R		
P21, P22	W	DW	DW	DRI		
P41, P42	DW	W	W	DRI		
P61, P62	W	DW	DW	DRI		
P81, P82	DW	W	W	DRI		
Sian C	OFF	OF F	ON	*		

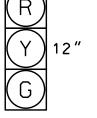
Sign C OFFOFFON * * See Note 8.

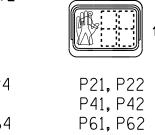
SIGNAL FACE I.D.

All Heads L.E.D.









P81, P82

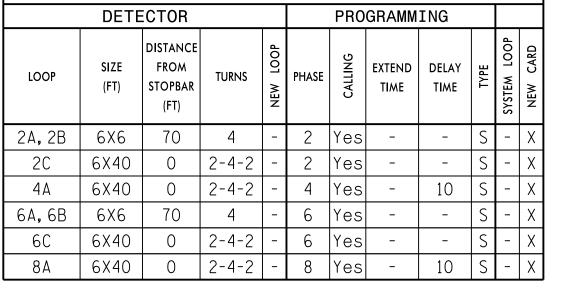
22, 23, 24 41, 42 62, 63, 64 81, 82

ASC/3 TIMING CHART							
	PHASE						
FEATURE	2	4	6	8			
Min Green *	10	7	10	7			
Walk *	7	7	7	7			
Ped Clear	18	17	18	20			
Veh. Extension *	3.0	2.0	3.0	2.0			
Max 1 *	30	20	30	20			
Yellow	4.0	3.8	4.0	3.8			
Red Clear	1.8	2.1	1.8	2.1			
Actuations B4 Add *	-	-	-	-			
Seconds /Actuation *	-	-	-	-			
Max Initial *	-	-	-	-			
Time Before Reduction *	-	ı	-	-			
Time To Reduce *	-	-	-	-			
Minimum Gap	-	-	-	-			
Locking Detector	Х	-	Х	-			
Recall Position	VEH. RECALL	-	VEH. RECALL	-			
Dual Entry	-	Х	-	X			
s: li s		V	· · ·	V			

* 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.

	DETECTOR		FROGRAMMINI					1				
	LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
	2A,2B	6X6	70	4	_	2	Yes	-	-	S	-	Х
	2C	6X40	0	2-4-2	_	2	Yes	-	-	S	-	Х
	4A	6X40	0	2-4-2	-	4	Yes	-	10	S	-	Х
	6A,6B	6X6	70	4	-	6	Yes	-	-	S	-	Х
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	6C	6X40	0	2-4-2	_	6	Yes	-	-	S	-	Х
	8.8	6X40	0	2-4-2	_	8	Yes	-	10	S	-	Х

SR 2299 (Russell Street)



ASC/3 DETECTOR INSTALLATION CHART

Fully Actuated w/Railroad Preemption Fayetteville Signal System

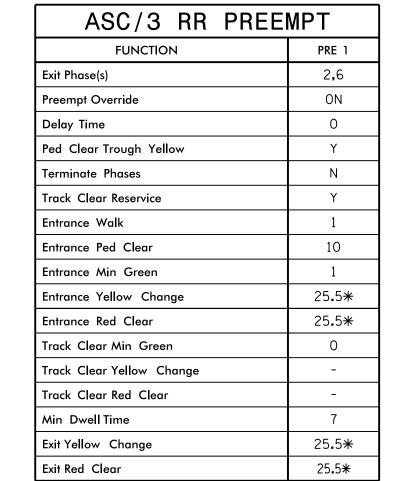
2 Phase

NOTES

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- 2. This location contains railroad preemption phasing. Do not program signal for late night flashing operation.
- 3. Set all detector units to presence mode.
- 4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- 6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 7. Pavement markings are existing.
- 8. Ensure flashing operation does not alter operation of blankout signs.
- 9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 10. Program phase 4 and 8 for Startup Red Clr.

LEGEND

<u>PROPOSED</u>		<u>EXISTING</u>
\bigcirc	Traffic Signal Head	
O	Modified Signal Head	N/A
$\overline{}$	Sign	
\downarrow	Pedestrian Signal Head With Push Button & Sign	•
<u> </u>	Signal Pole with Guy	•
	Signal Pole with Sidewalk Guy	, —
	Inductive Loop Detector	$\subseteq = = \supset$
	Controller & Cabinet	K-\2
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
\longrightarrow	Directional Arrow	\longrightarrow
0	Metal Pole with Mastarm	
\bigcirc	Type II Signal Pedestal	
N/A	Railroad Cantilever	
⟨A⟩ R	ight Arrow "ONLY" Sign (R3-5)	₹) (A)
⑤ "DO	NOT STOP ON TRACKS" Sign (RE	3−8) B
©	"NO LEFT TURN - TRAIN" L.E.D. Blankout Sign	0

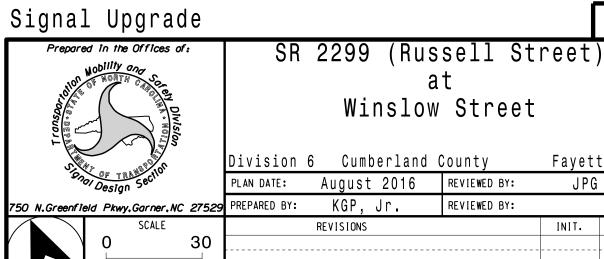


SR 2299 (Russell Street)

→ (2A) |___

* Allows normal phase times to be used.

This signal was designed for Simultaneous Preemption



Winslow Street Division 6 Cumberland County Fayetteville August 2016 REVIEWED BY: JPG

INIT. DATE

SIG. INVENTORY NO.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED