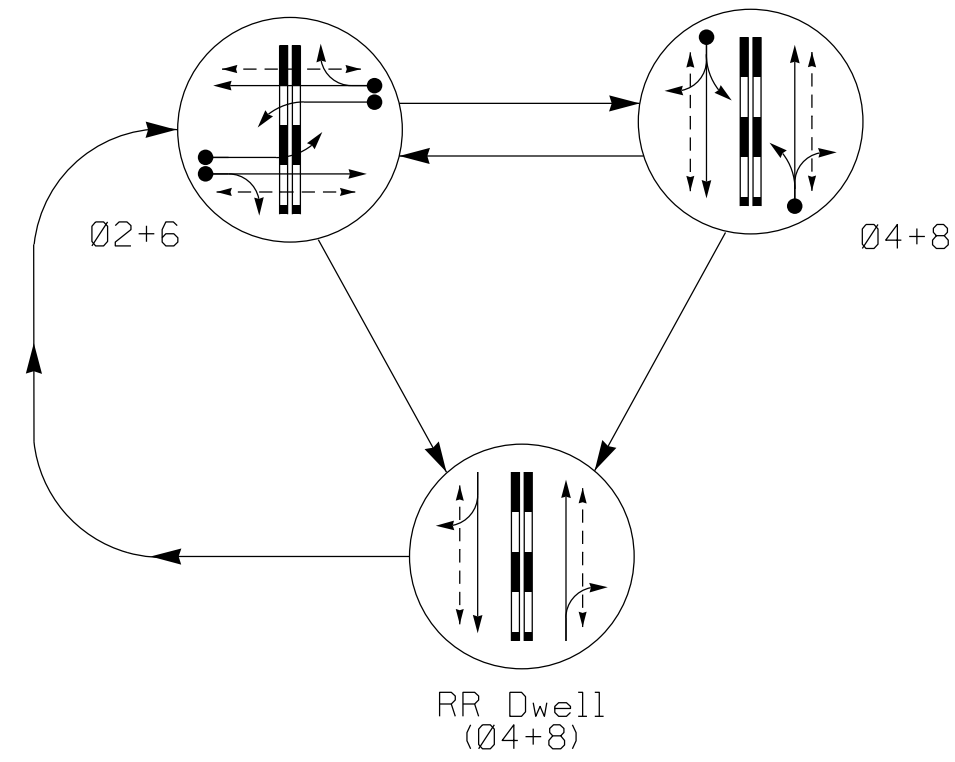


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- ←● DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- ← UNSIGNALIZED MOVEMENT
- ←--- PEDESTRIAN MOVEMENT

ASC/3 RR PREEMPT	
FUNCTION	PRE 1
Exit Phase(s)	2,6
Preempt Override	ON
Delay Time	0
Ped Clear Through Yellow	Y
Terminate Phases	N
Track Clear Reserve	Y
Entrance Walk	255*
Entrance Ped Clear	255*
Entrance Min Green	1
Entrance Yellow Change	25.5*
Entrance Red Clear	25.5*
Track Clear Min Green	10
Track Clear Yellow Change	25.5*
Track Clear Red Clear	25.5*
Min Dwell Time	10
Exit Yellow Change	25.5*
Exit Red Clear	25.5*

* Allows normal phase times to be used.

ASC/3 TIMING CHART

FEATURE	PHASE			
	2	4	6	8
Min Green *	7	7	7	7
Walk *	7	7	7	7
Ped Clear	16	11	17	10
Veh. Extension *	2.0	2.0	2.0	2.0
Max 1 *	50	30	50	30
Yellow	3.2	3.8	3.1	3.8
Red Clear	2.1	1.8	2.2	1.6
Red Revert	0.0	0.0	0.0	0.0
Actuations B4 Add *	-	-	-	-
Seconds / Actuation *	-	-	-	-
Max Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Locking Detector	X	-	X	-
Recall Position	MIN RECALL	-	MIN RECALL	-
Dual Entry	-	X	-	X
Simultaneous Gap	X	X	X	X

* 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.

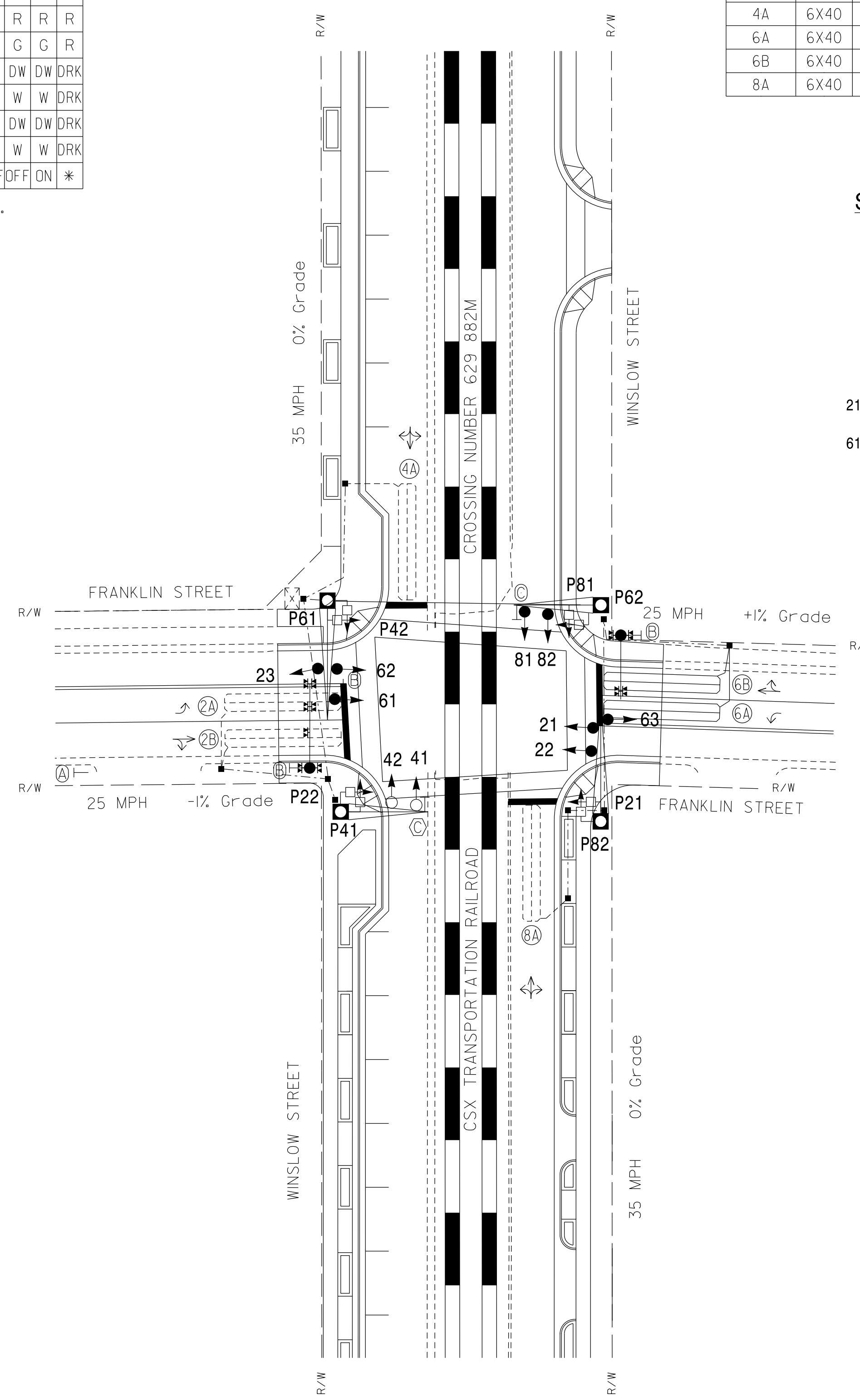
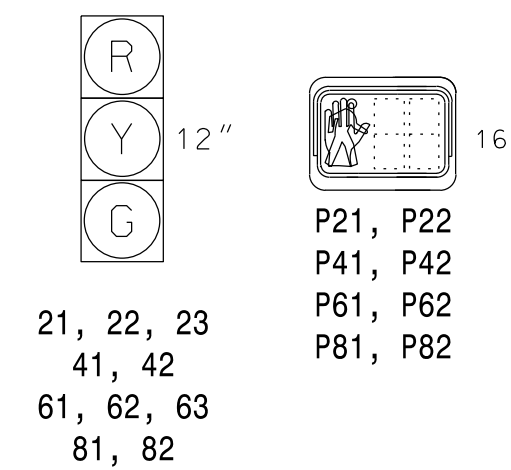
SIGNAL FACE	PHASE			
	02+6	04+8	RR Dwell (04+8)	FLASH
2L, 22, 23	G	R	R	R
4L, 42	R	G	G	R
6L, 62, 63	G	R	R	R
8L, 82	R	G	G	R
P2L, P22	W	DW	DW	DRK
P4L, P42	DW	W	W	DRK
P6L, P62	W	DW	DW	DRK
P8L, P82	DW	W	W	DRK
Sign C	OFF	OFF	ON	*

* See Note 6.

ASC/3 DETECTOR INSTALLATION CHART											
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING						
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
2A	6X40	0	2-4-2	-	2	Yes	-	-	S	-	Y
2B	6X40	0	2-4-2	-	2	Yes	-	-	S	-	Y
4A	6X40	0	2-4-2	-	4	Yes	-	10	S	-	Y
6A	6X40	0	2-4-2	-	6	Yes	-	-	S	-	Y
6B	6X40	0	2-4-2	-	6	Yes	-	-	S	-	Y
8A	6X40	0	2-4-2	-	8	Yes	-	10	S	-	Y

SIGNAL FACE I.D.

All Heads L.E.D.



- 2 Phase Fully Actuated W/RR Preemption (Fayetteville Signal System)
- NOTES**
- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 "Standard Specifications for Roads and Structures" dated January 2012.
 - This location contains railroad preemption phasing. Do not program signal for late night flashing operation.
 - Set all detector units to presence mode.
 - Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
 - Program pedestrian heads to countdown the flashing "Don't Walk" time only.
 - Ensure flashing operation does not alter operation of blankout signs.
 - Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
 - Activate loop 4A installed during TCP Phase II.
 - Program phases 2 and 6 for Startup Red Clr.
 - Program phases 2 and 6 for First Phases.

LEGEND			
PROPOSED	EXISTING		
○→	Traffic Signal Head	●→	N/A
○→	Modified Signal Head	○→	N/A
○→	Sign	○→	N/A
○→	Pedestrian Signal Head With Push Button & Sign	○→	N/A
○→	Signal Pole with Guy	○→	N/A
○→	Signal Pole with Sidewalk Guy	○→	N/A
□	Inductive Loop Detector	□	N/A
□	Controller & Cabinet	□	N/A
□	Junction Box	□	N/A
---	2-in Underground Conduit	---	N/A
N/A	Right of Way	---	N/A
→	Directional Arrow	→	N/A
→	Metal Pole with Mastarm	→	N/A
N/A	Railroad Cantilever	→	N/A
→	Directional Drill	→	N/A
Ⓐ	"LEFT LANE MUST TURN LEFT" Sign (R3-7L)	Ⓐ	N/A
Ⓑ	"DO NOT STOP ON TRACKS" Sign (R8-8)	Ⓑ	N/A
Ⓒ	"NO LEFT TURN - TRAIN" L.E.D. Blankout Sign	Ⓒ	N/A

Signal Upgrade

Prepared In the Offices of:

P.O. Box 700
Fayetteville, NC 27526
www.hatchmott.com

HATCH MOTT MACDONALD & E, LLC
LICENSE NO. F-4669

Winslow Street at Franklin Street

DIV 06 CUMBERLAND COUNTY FAYETTEVILLE

PLAN DATE: NOVEMBER 2016 REVIEWED BY: RWT

PREPARED BY: RTP REVIEWED BY:

SEAL

DocuSign by: Richard T. Pate 11/22/2016

SIG. INVENTORY NO. 0031

defaul1... \V\NCE-DA\TA\Proj\360655_U-5742-F-Obj-Sig\Project\Sigals\Design\1000\FINAL SEALED PLANS\Revised 11/22/2016\Winslow @ Franklin.dgn
 11/22/2016 9:54:16 AM