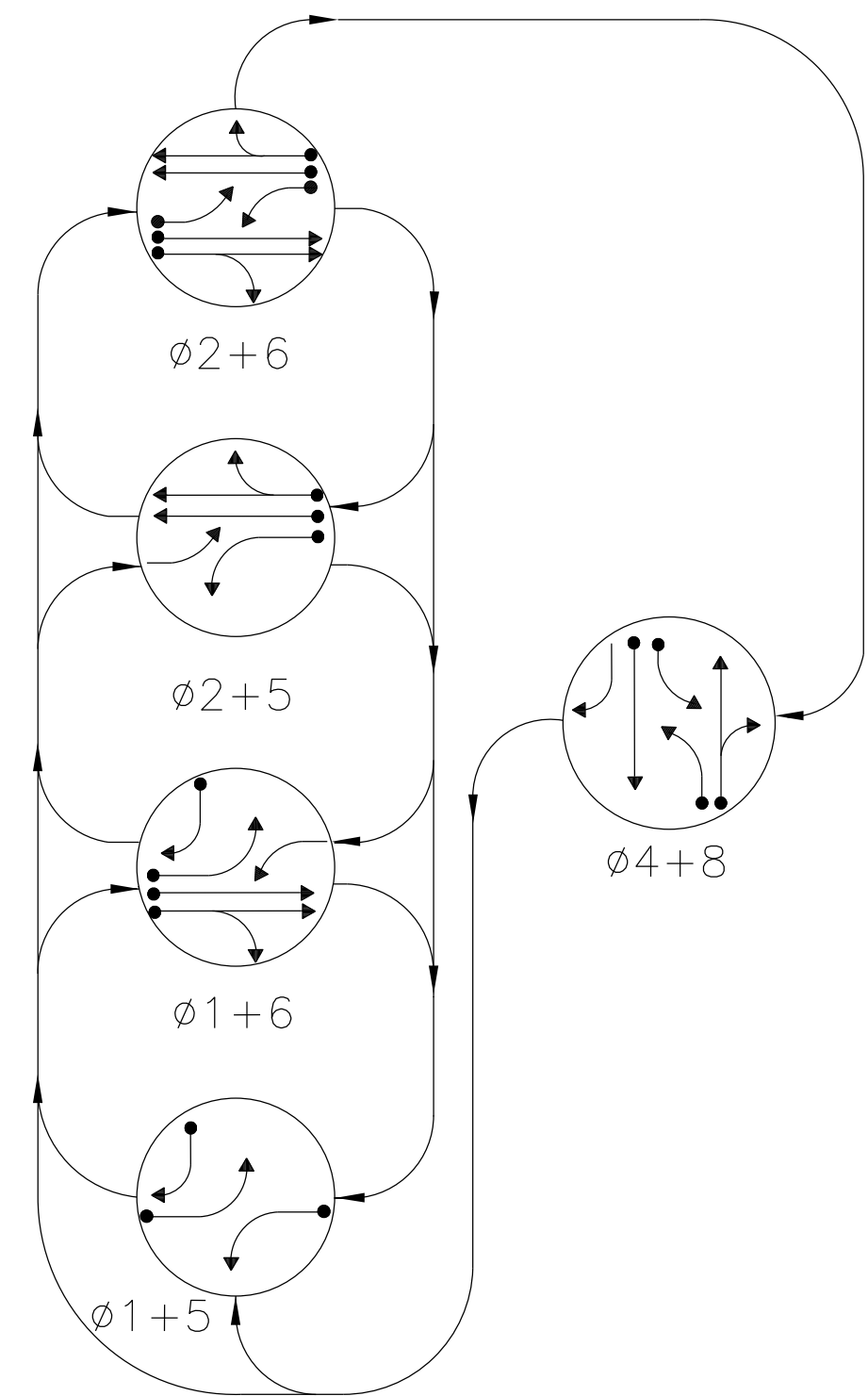


5 PHASE FULLY ACTUATED FAYETTEVILLE SIGNAL SYSTEM

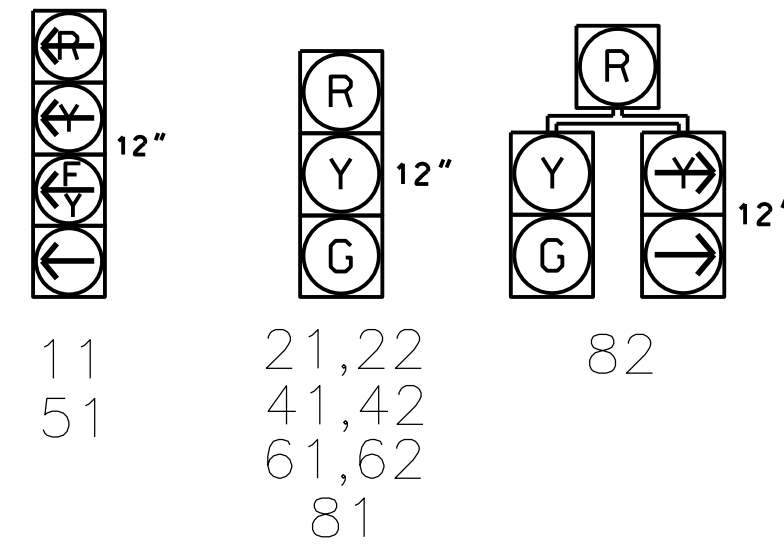
PHASING DIAGRAM



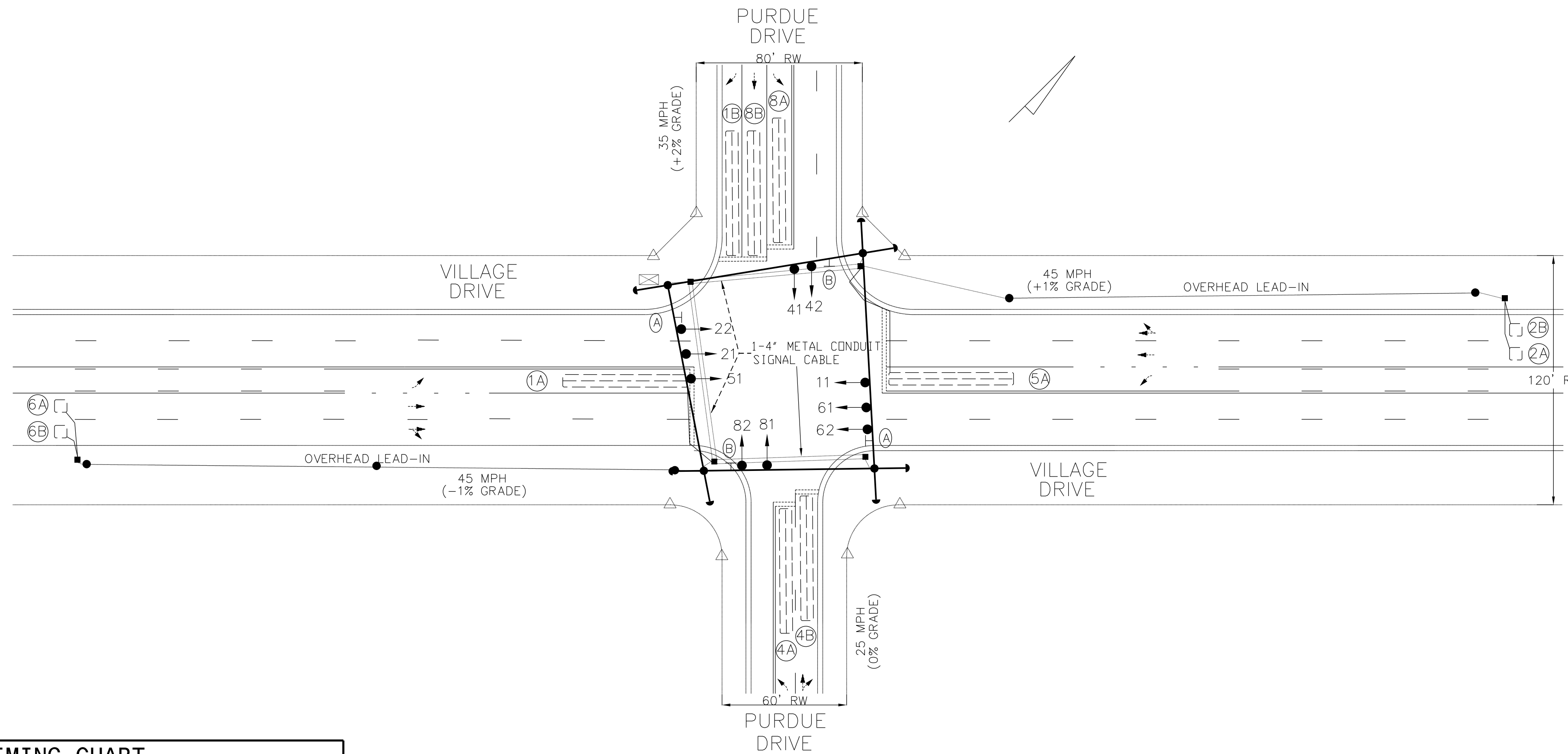
PHASING DIAGRAM DETECTION LEGEND
 -> DETECTED MOVEMENT
 -> UNDETECTED MOVEMENT (OVERLAP)
 -> UNSIGNALIZED MOVEMENT

SIGNAL FACE	PHASE					FLASH
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 4+8	
11	←	←	←	←	←	Y
21,22	R	R	G	G	R	Y
41,42	R	R	R	R	G	R
51	←	←	←	←	←	Y
61,62	R	G	R	G	R	Y
81	R	R	R	R	G	R
82	R	R	R	R	G	R

SIGNAL FACE I.D.
All Heads L.E.D.



- NOTES
- REFER TO "ROADWAY STANDARD DRAWINGS NCDOT" DATED JANUARY 2012 AND "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2012.
 - PAVEMENT MARKINGS ARE EXISTING.
 - MAXIMUM TIMES SHOWN IN TIMING CHART ARE FOR FREE-RUN OPERATION ONLY. COORDINATED SIGNAL SYSTEM TIMING VALUES SHALL SUPERSEDE THESE VALUES.
 - PROGRAM PHASE 4 AND PHASE 8 FOR DUAL ENTRY.
 - SET ALL DETECTOR UNITS TO PRESENCE MODE.
 - LOCATE NEW CABINET ON EXISTING FOUNDATION
 - IN THE EVENT OF LOOP REPLACEMENT, REFER TO THE CURRENT ITS AND SIGNALS DESIGN MANUAL.



ASC/3 TIMING CHART

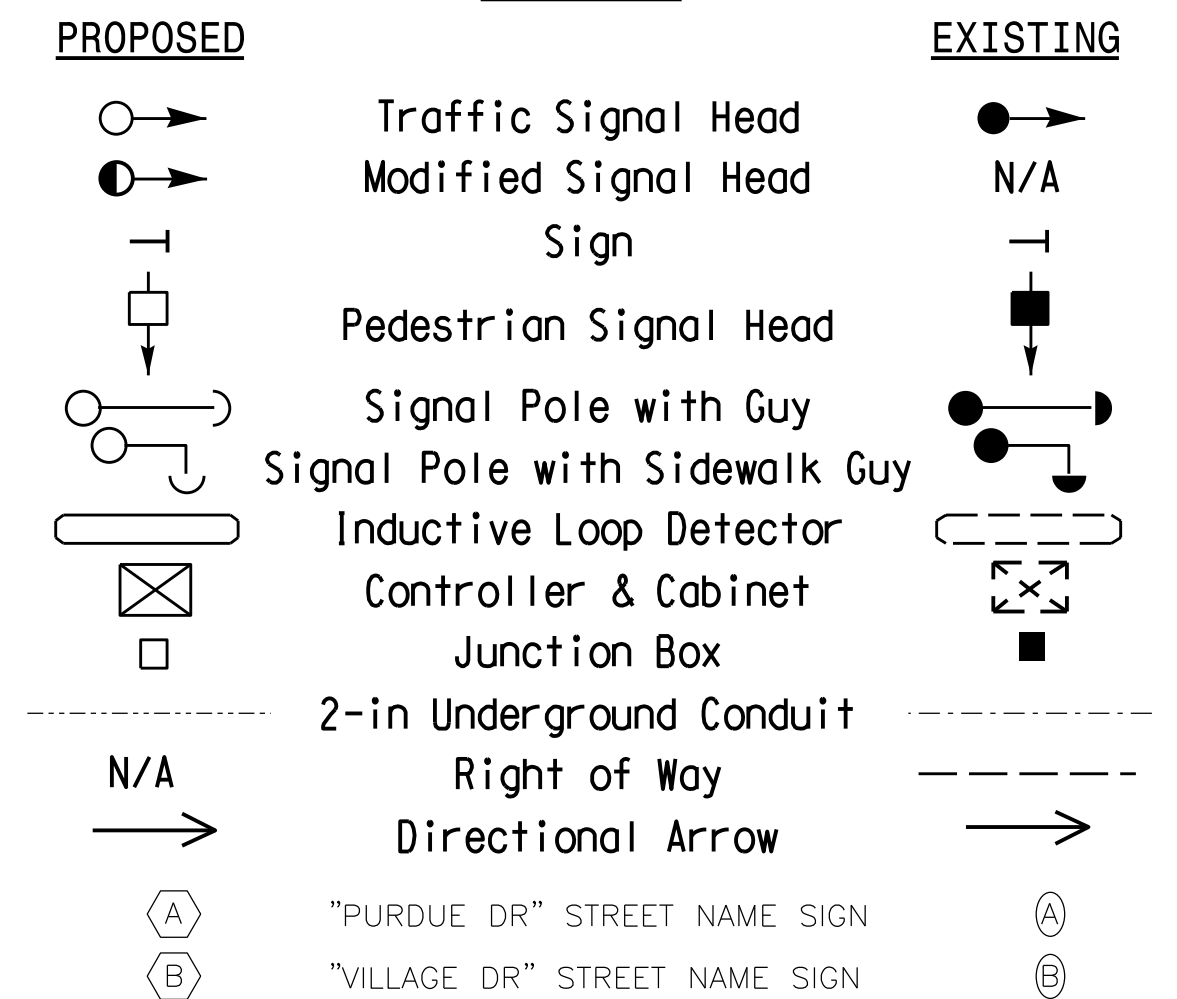
FEATURE	PHASE					
	1	2	4	5	6	8
Min Green *	7	12	7	7	12	7
Walk *	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-
Veh. Extension *	1.0	6.0	1.0	1.0	6.0	1.0
Max I *	15	75	20	15	75	20
Yellow	3.2	4.4	3.2	3.1	4.6	3.1
Red Clear	2.1	1.2	2.4	2.1	1.0	2.5
Actuations B4 Add *	-	0	-	-	0	-
Seconds / Actuation *	-	1.5	-	-	1.5	-
Max Initial *	-	34	-	-	34	-
Time Before Reduction *	-	15	-	-	15	-
Time To Reduce *	-	30	-	-	30	-
Minimum Gap	-	3.0	-	-	3.0	-
Locking Detector	-	X	-	-	X	-
Recall Position	-	MIN. RECALL	-	-	MIN. RECALL	-
Dual Entry	-	-	X	-	-	X
Simultaneous Gap	X	X	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.

ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING				SYSTEM LOOP	NEW CARD
					PHASE	EXTEND TIME	DELAY TIME	TYPE		
1A	6X60	0	2-4-2	-	6	-	3	G	-	Y
1B	6X60	0	2-4-2	-	1	-	15	S	-	Y
2A	6X6	300	4	-	2	-	-	S	-	Y
2B	6X6	300	4	-	2	-	-	S	-	Y
4A	6X60	0	2-4-2	-	4	-	3	S	-	Y
4B	6X60	0	2-4-2	-	4	-	10	S	-	Y
5A	6X60	0	2-4-2	-	2	-	3	G	-	Y
6A	6X6	300	4	-	6	-	-	S	-	Y
6B	6X6	300	4	-	6	-	-	S	-	Y
8A	6X60	0	2-4-2	-	8	-	3	S	-	Y
8B	6X60	0	2-4-2	-	8	-	-	S	-	Y

LEGEND



Signal Upgrade

Hatch Mott MacDonald
 PO Box 700
 Fuquay-Varina, NC 27526
 www.hatchmott.com

Village Drive AT Purdue Drive

Seal: Russell W. Thompson, Professional Engineer, License No. 032711

Plan Date: NOVEMBER 2016
 Prepared By: BLR
 Reviewed By: RWT

Scale: 0 to 40

Signature: Russell W. Thompson, 11/21/2016

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