

PHASING DIAGRAM

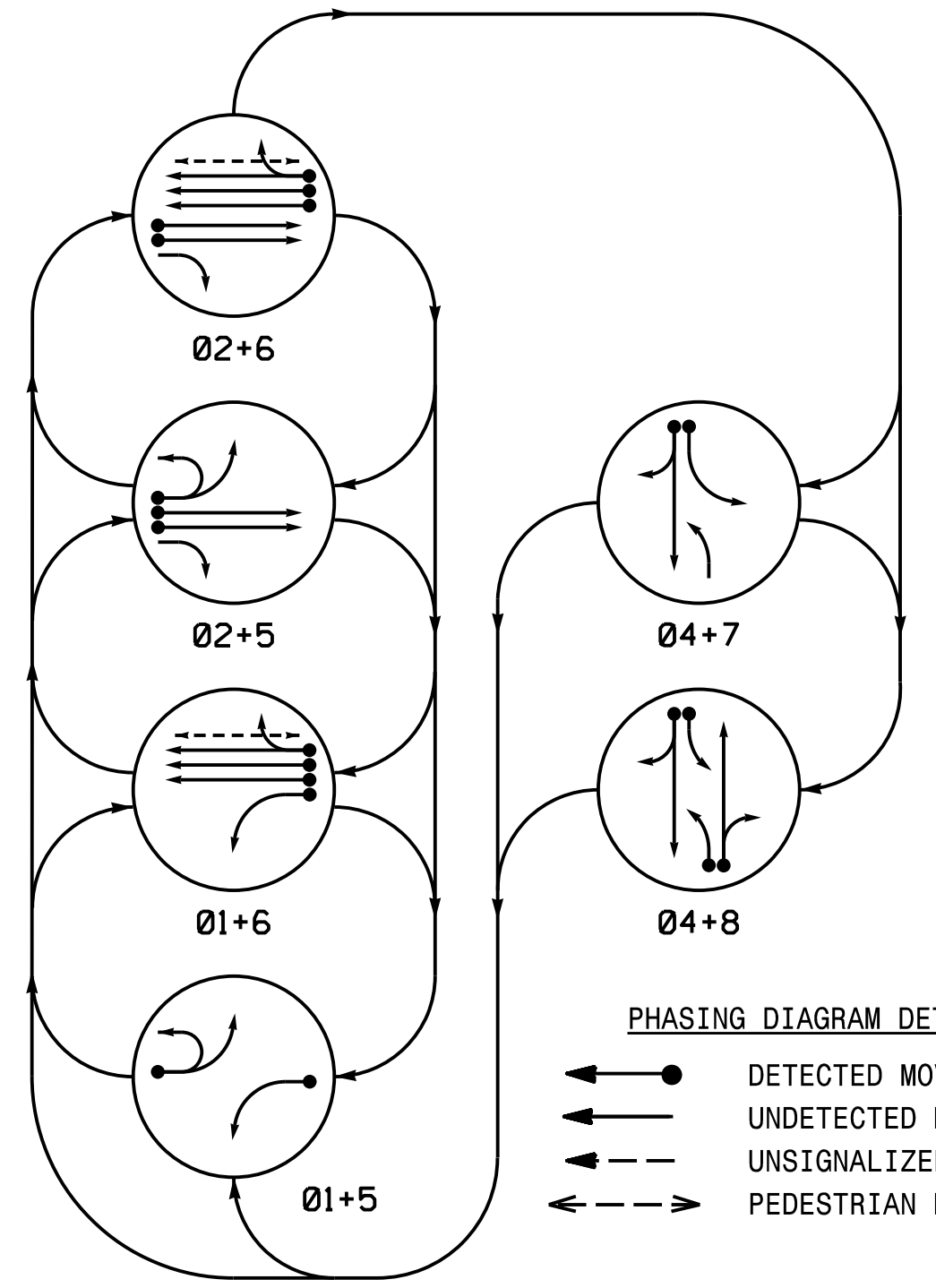
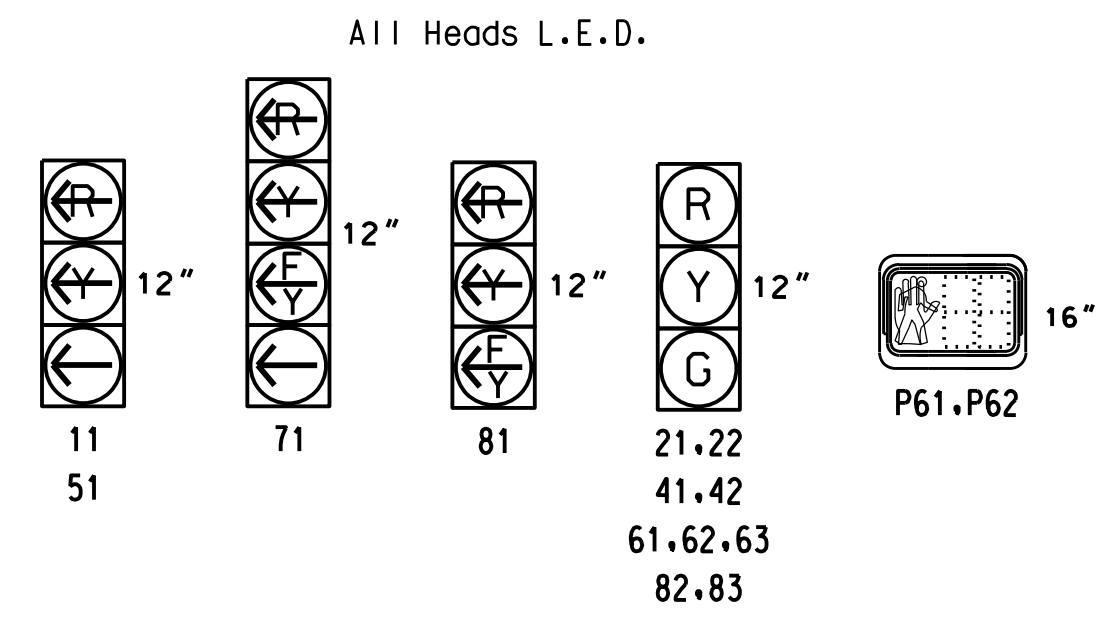


TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	04+7	04+8	F	WALK
11	-	-	R	R	R	R	R	R
21, 22	R	R	G	G	R	R	Y	
41, 42	R	R	R	R	G	G	R	
51	-	-	R	R	R	R	R	
61, 62, 63	R	G	R	G	R	R	Y	
71	R	R	R	R	-	F	R	
81	R	R	R	R	F	F	R	
82, 83	R	R	R	R	R	G	R	
P61, P62	DW	W	DW	W	DW	DW	DRK	

SIGNAL FACE I.D.



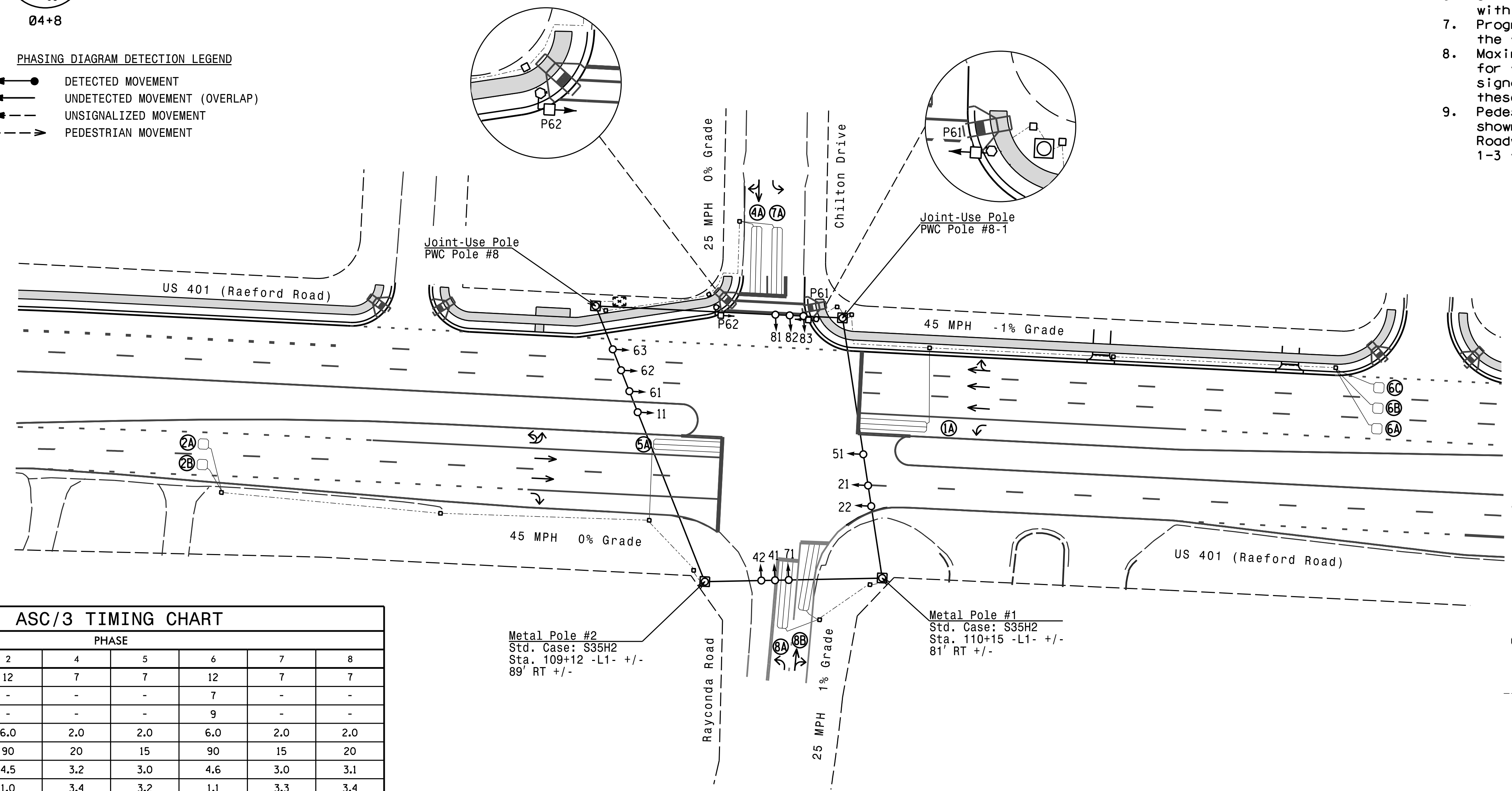
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	X	1	Yes	-	-	-	S	-	X
2A	6X6	300	5	X	2	Yes	-	-	X	N	-	X
2B	6X6	300	5	X	2	Yes	-	-	X	N	-	X
4A	6X40	0	2-4-2	X	4	Yes	-	10	-	S	-	X
5A	6X40	0	2-4-2	X	5	Yes	-	-	-	S	-	X
6A	6X6	300	6	X	6	Yes	-	-	X	N	-	X
6B	6X6	300	6	X	6	Yes	-	-	X	N	-	X
6C	6X6	300	6	X	6	Yes	-	-	X	N	-	X
7A	6X40	0	2-4-2	X	7	Yes	-	15	-	S	-	X
8A	6X6	0	2-4-2	X	8	Yes	-	3	-	G	-	X
8B	6X6	0	2-4-2	X	8	Yes	-	10	-	S	-	X

6 Phase Fully Actuated Fayetteville Signal System

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. Phase 1 and/or phase 5 may be lagged.
4. Phase 7 may be lagged.
5. Set all detector units to presence mode.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
9. Pedestrian pedestals are conceptual and shown for reference only. See 2018 NCDOT Roadway Standard Drawings 1705.04 Sheets 1-3 for push button location details.

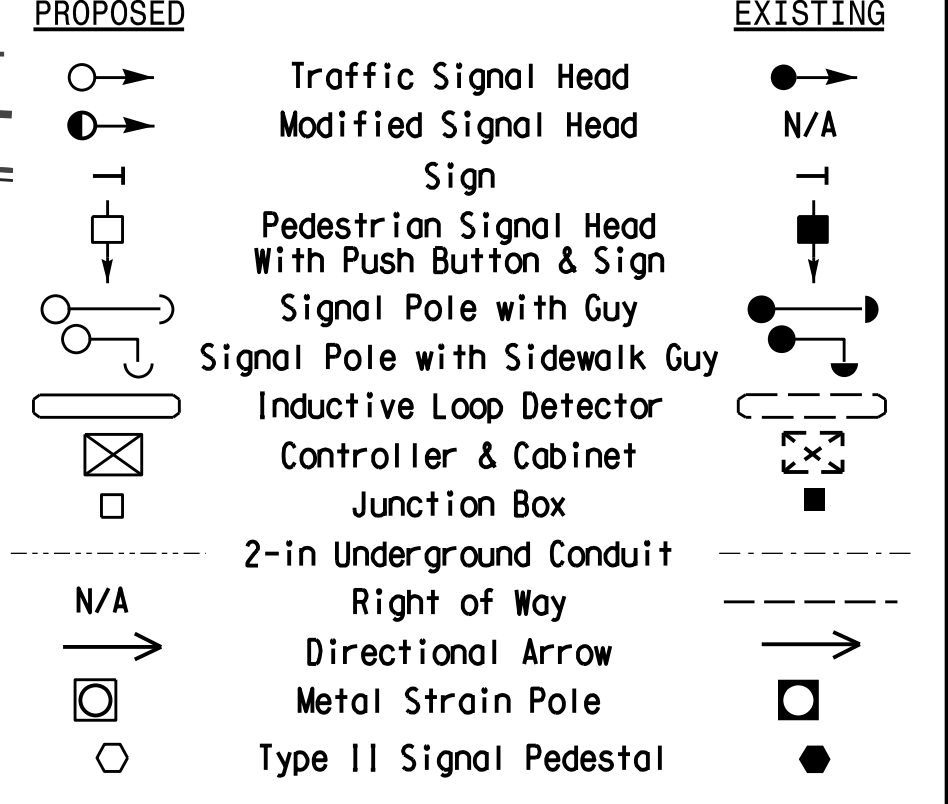


ASC/3 TIMING CHART

FEATURE	PHASE							
	1	2	4	5	6	7	8	
Min Green *	7	12	7	7	12	7	7	
Walk *	-	-	-	-	7	-	-	
Ped Clear	-	-	-	-	9	-	-	
Veh. Extension *	2.0	6.0	2.0	2.0	6.0	2.0	2.0	
Max I *	15	90	20	15	90	15	20	
Yellow	3.0	4.5	3.2	3.0	4.6	3.0	3.1	
Red Clear	2.8	1.0	3.4	3.2	1.1	3.3	3.4	
Red Revert	-	-	-	-	-	-	-	
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	-	VEH. RECALL	-	-	VEH. RECALL	-	-	
Dual Entry	-	-	X	-	-	-	X	
Simultaneous Gap	X	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.

LEGEND



Signal Upgrade - Final Design

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 STATE OF NORTH CAROLINA
 PROFESSIONAL ENGINEER
 SIGNAL DESIGN SECTION
 750 N. Greenfield Pkwy, Garner, NC 27526

US 401 (Raeford Rd.)
 at
 Chilton Dr / Rayconda Rd
 Division 6 Cumberland County Fayetteville
 PLAN DATE: June 2019 REVIEWED BY: E D Harris
 PREPARED BY: R M Muncey REVIEWED BY: B L Watson

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

 Betsy L. Watson
 PROFESSIONAL ENGINEER
 No. 29449
 DATE: 6/5/2019
 SIGNATURE: [Signature]
 DATE: [Date]
 SIG. INVENTORY NO. 06-0767

6/5/2019 10:45 AM
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 User: jhambricht