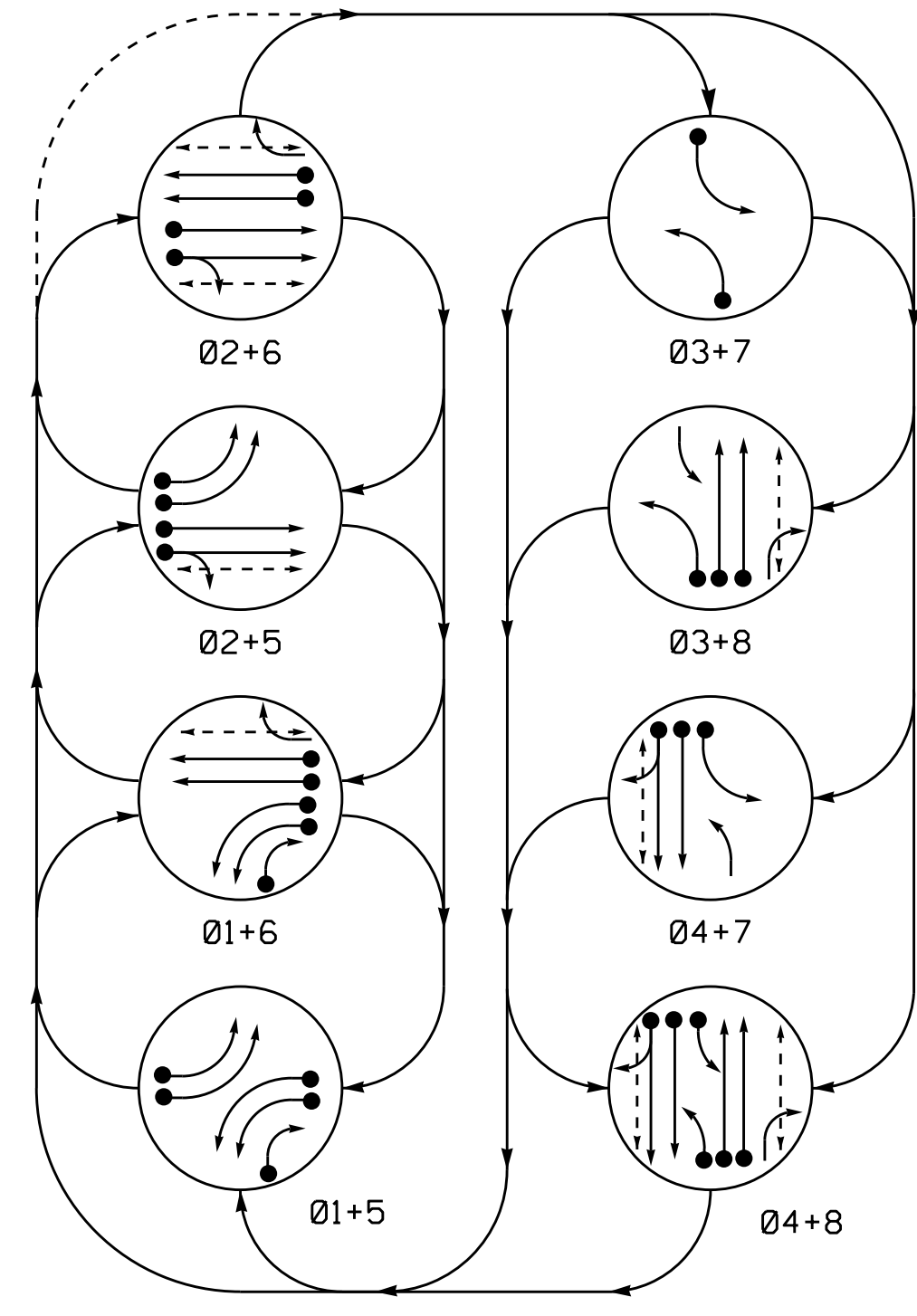


PHASING DIAGRAM

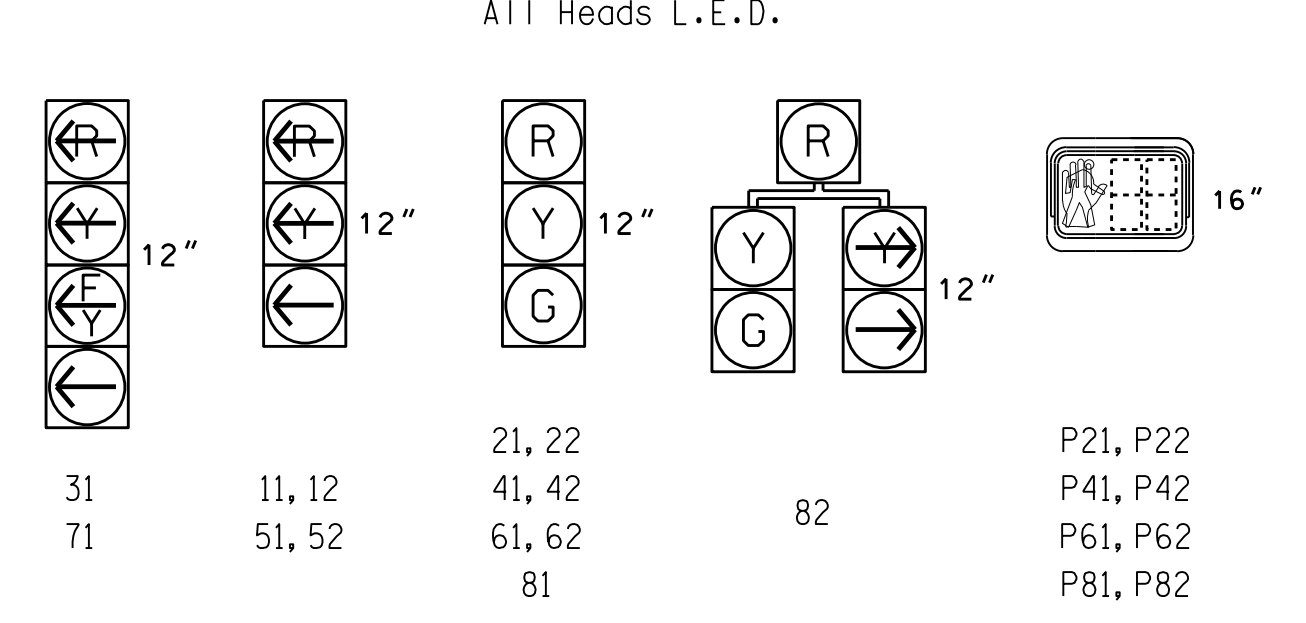


PHASING DIAGRAM DETECTION LEGEND

- ◄●► DETECTED MOVEMENT
- ◄◄◄ UNDETECTED MOVEMENT (OVERLAP)
- ◄◄◄ UNSIGNALIZED MOVEMENT
- ◄◄◄ PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE								FLASH
	Ø1+5	Ø2+5	Ø3+5	Ø4+5	Ø1+6	Ø2+6	Ø3+6	Ø4+6	
11,12	—	—	—	—	—	—	—	—	—
21,22	R	R	G	G	R	R	R	R	Y
31	—	—	—	—	—	—	—	—	—
41,42	R	R	R	R	R	R	G	G	R
51,52	—	—	—	—	—	—	—	—	—
61,62	R	G	R	G	R	R	R	R	Y
71	—	—	—	—	—	—	—	—	—
81	R	R	R	R	G	R	G	R	—
82	—	—	—	—	—	—	—	—	—
P21,P22	DW	DW	W	DW	DW	DW	DW	DRK	—
P41,P42	DW	DW	DW	DW	DW	W	W	DRK	—
P61,P62	DW	W	DW	DW	DW	DW	DW	DRK	—
P81,P82	DW	DW	DW	DW	W	DW	W	DRK	—

SIGNAL FACE I.D.

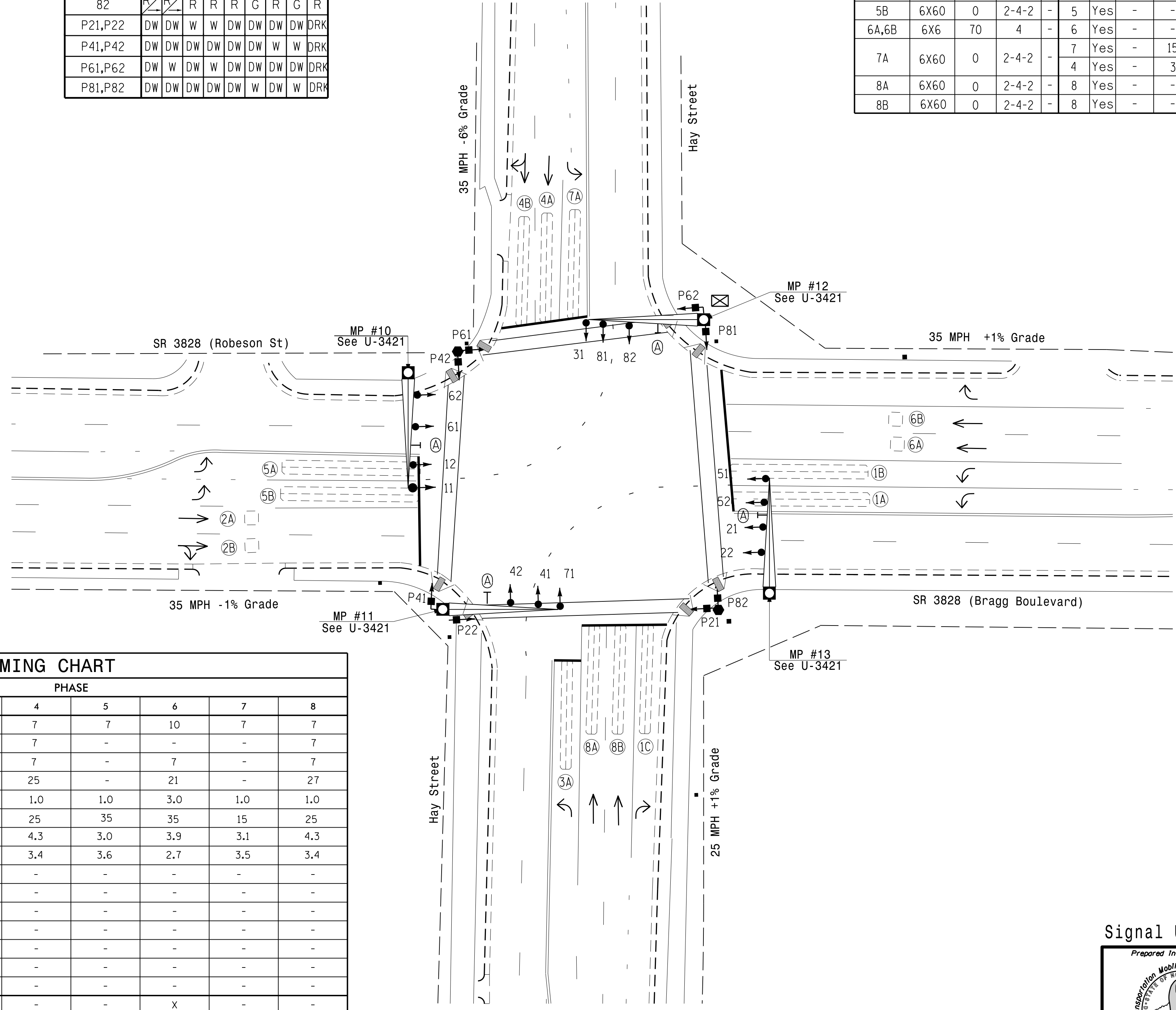


LOOP	SIZE (FT)	DETECTOR			PROGRAMMING						
		DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
1A	6X60	0	2-4-2	-	1	Yes	-	3	S	-	X
1B	6X60	0	2-4-2	-	1	Yes	-	-	S	-	X
1C	6X60	0	2-4-2	-	1	Yes	-	15	S	-	X
2A,2B	6X6	70	4	-	2	Yes	-	-	S	-	X
3A	6X60	0	2-4-2	-	3	Yes	-	15	S	-	X
4A	6X60	0	2-4-2	-	4	Yes	-	-	S	-	X
4B	6X60	0	2-4-2	-	4	Yes	-	10	S	-	X
5A	6X60	0	2-4-2	-	5	Yes	-	3	S	-	X
5B	6X60	0	2-4-2	-	5	Yes	-	-	S	-	X
6A,6B	6X6	70	4	-	6	Yes	-	-	S	-	X
7A	6X60	0	2-4-2	-	7	Yes	-	15	S	-	X
8A	6X60	0	2-4-2	-	8	Yes	-	-	S	-	X
8B	6X60	0	2-4-2	-	8	Yes	-	-	S	-	X

6 Phase Fully Actuated Fayetteville Signal System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Set all detector units to presence mode.
- In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green *	7	10	7	7	7	10	7	7
Delay Green	-	-	-	7	-	-	-	7
Walk *	-	7	-	7	-	7	-	7
Ped Clear	-	25	-	25	-	21	-	27
Veh. Extension *	1.0	3.0	1.0	1.0	1.0	3.0	1.0	1.0
Max 1 *	35	35	15	25	35	35	15	25
Yellow	3.0	3.9	3.0	4.3	3.0	3.9	3.1	4.3
Red Clear	3.6	2.7	3.5	3.4	3.6	2.7	3.5	3.4
Red Revert	-	-	-	-	-	-	-	-
Actuations B4 Add *	-	-	-	-	-	-	-	-
Seconds / Actuation *	-	-	-	-	-	-	-	-
Max Initial *	-	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-	-
Locking Detector	-	X	-	-	-	X	-	-
Recall Position	-	SOFT RECALL	-	-	-	SOFT RECALL	-	-
Dual Entry	-	-	-	X	-	-	-	X
Simultaneous Gap	X	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.

PROPOSED		EXISTING	
○→	Traffic Signal Head	●→	N/A
◐→	Modified Signal Head	◐→	N/A
⊥	Sign	⊥	N/A
⊥	Pedestrian Signal Head With Push Button & Sign	⊥	N/A
○	Pedestrian Pedestal	○	N/A
⊥	Signal Pole with Guy	⊥	N/A
⊥	Signal Pole with Sidewalk Guy	⊥	N/A
⊥	Metal Pole with Mastarm	⊥	N/A
⊥	Inductive Loop Detector	⊥	N/A
⊥	Controller & Cabinet	⊥	N/A
⊥	Junction Box	⊥	N/A
N/A	Wheel Chair Ramp	⊥	N/A
⊥	2-in Underground Conduit	⊥	N/A
N/A	Right of Way	⊥	N/A
→	Directional Arrow	→	N/A
(A)	"STREET NAME" Sign	(A)	N/A

Signal Upgrade

SR 3828 (Robeson St/Bragg Blvd) at Hay Street

Division 6 Cumberland County Fayetteville

PLAN DATE: October 2015 REVIEWED BY: JPG, PE

PREPARED BY: EM Minshew REVIEWED BY:

SEAL

JASON P. GALLOWAY

PROFESSIONAL ENGINEER

029904

5/31/2016

DATE

SCALE: 1"=30'

REVISIONS: _____ INIT. DATE

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