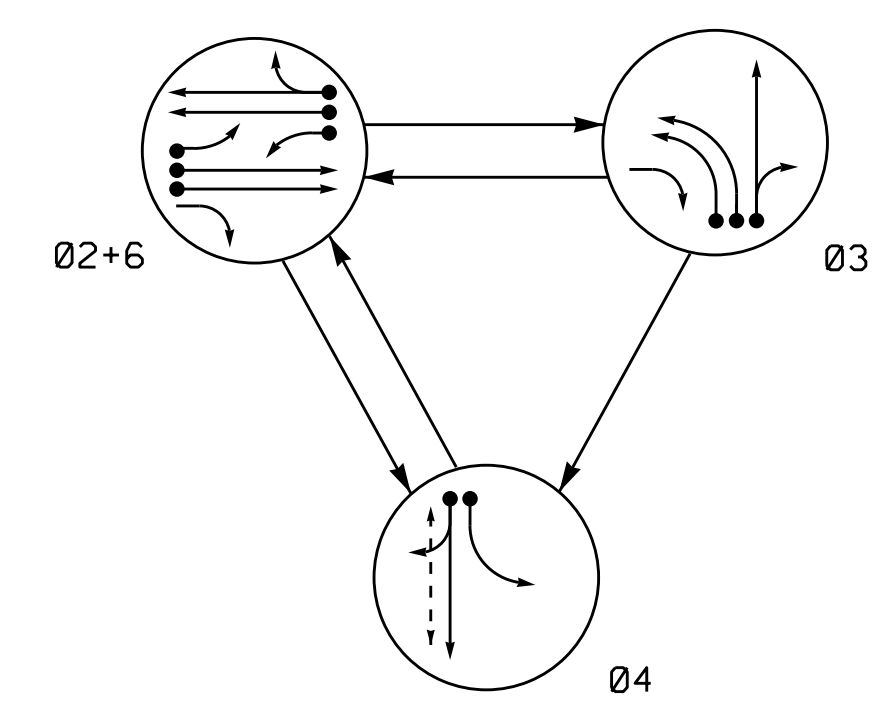


3 Phase Fully Actuated Fayetteville Signal System

PHASING DIAGRAM



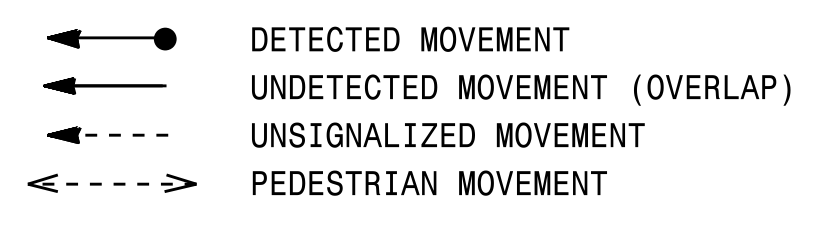
SIGNAL FACE	PHASE			
	0 2 + 6	0 3	0 4	FLASH
21, 22	G	R	R	Y
23	G	R	R	Y
31, 32	R	G	R	Y
33, 34	R	G	R	Y
41	R	R	G	R
42	R	R	G	R
61, 62	G	R	R	Y
P41, P42	DW	DW	W	DRK

ASC/3 DETECTOR INSTALLATION CHART										
DETECTOR					PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	NEW CARD
2A/S2A	6X6	300	5	-	2	Yes	-	-	N	X
2B/S2B	6X6	300	5	-	2	Yes	-	-	N	X
2C	6X40	0	2-4-2	-	2	Yes	-	3	G	-
3A	6X40	0	2-4-2	-	3	Yes	-	-	S	-
3B	6X40	0	2-4-2	-	3	Yes	-	-	S	-
3C	6X40	0	2-4-2	-	3	Yes	-	10	S	-
4A	6X40	0	2-4-2	-	4	Yes	-	3	S	-
4B	6X40	0	2-4-2	-	4	Yes	-	10	S	-
6A/S6A	6X6	300	5	-	6	Yes	-	-	N	X
6B/S6B	6X6	300	5	-	6	Yes	-	-	N	X
6C	6X40	0	2-4-2	-	6	Yes	-	3	G	-

NOTES

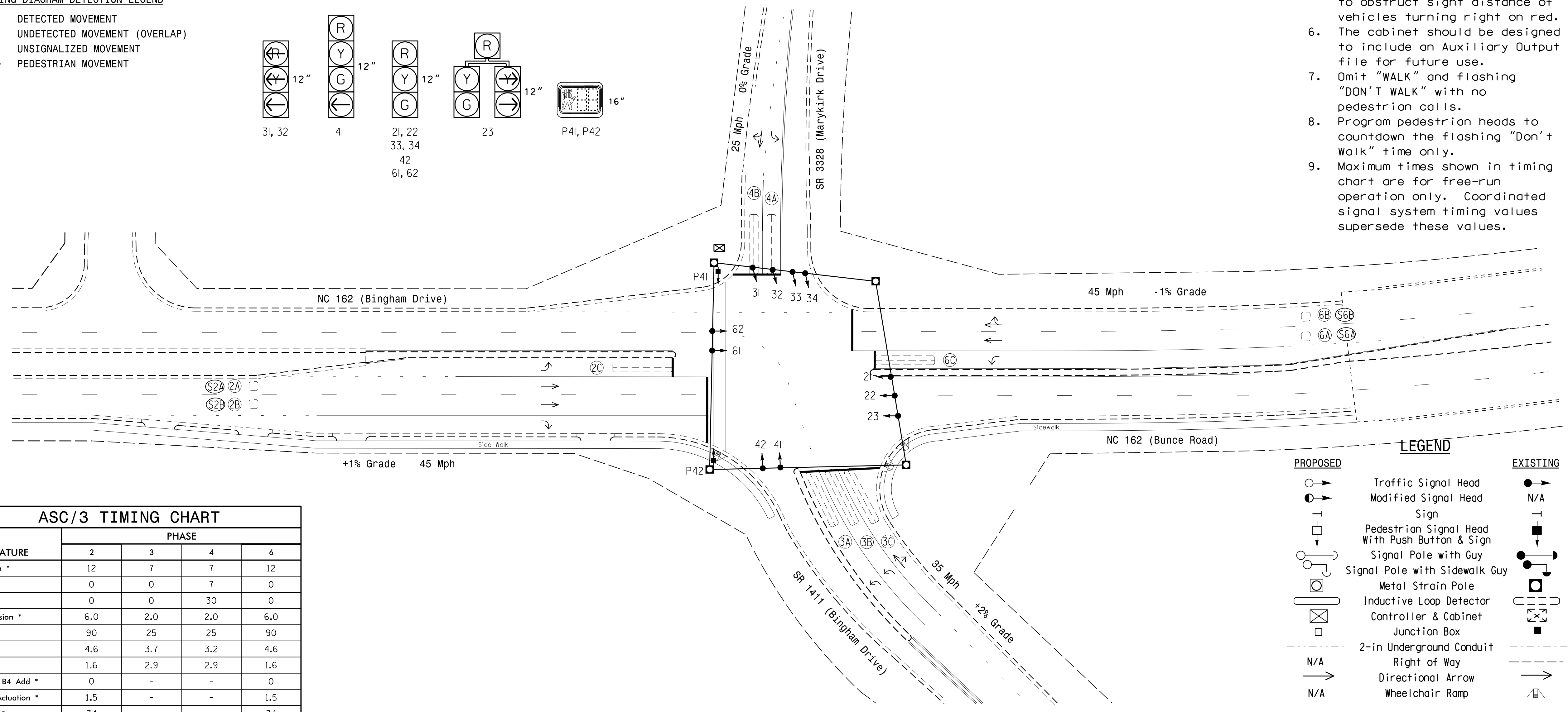
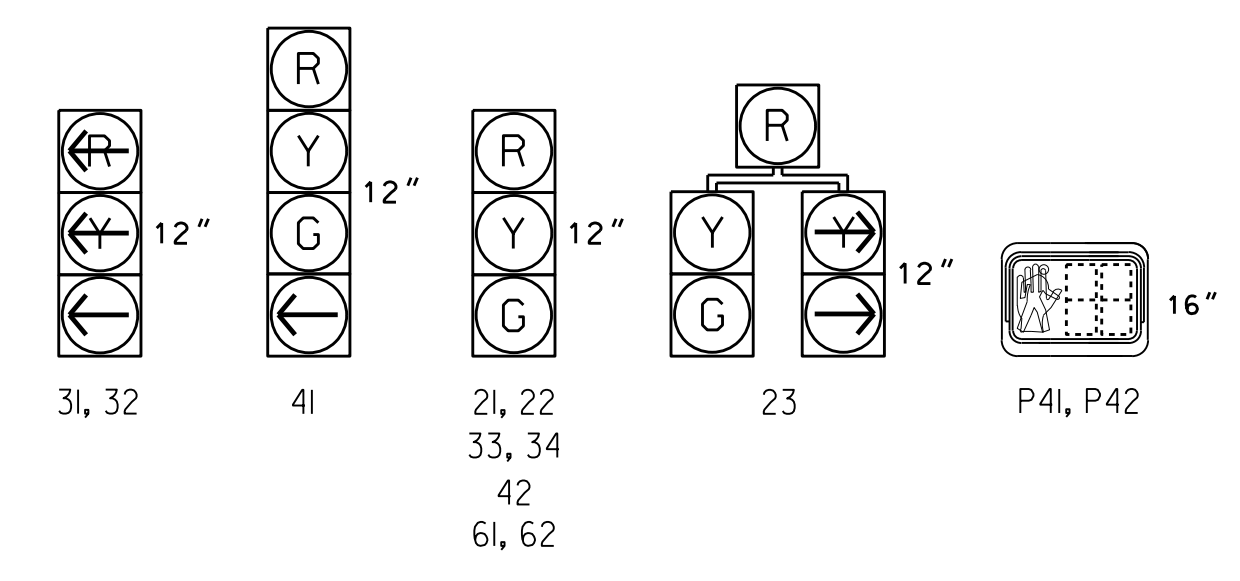
- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- The cabinet should be designed to include an Auxiliary Output file for future use.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND



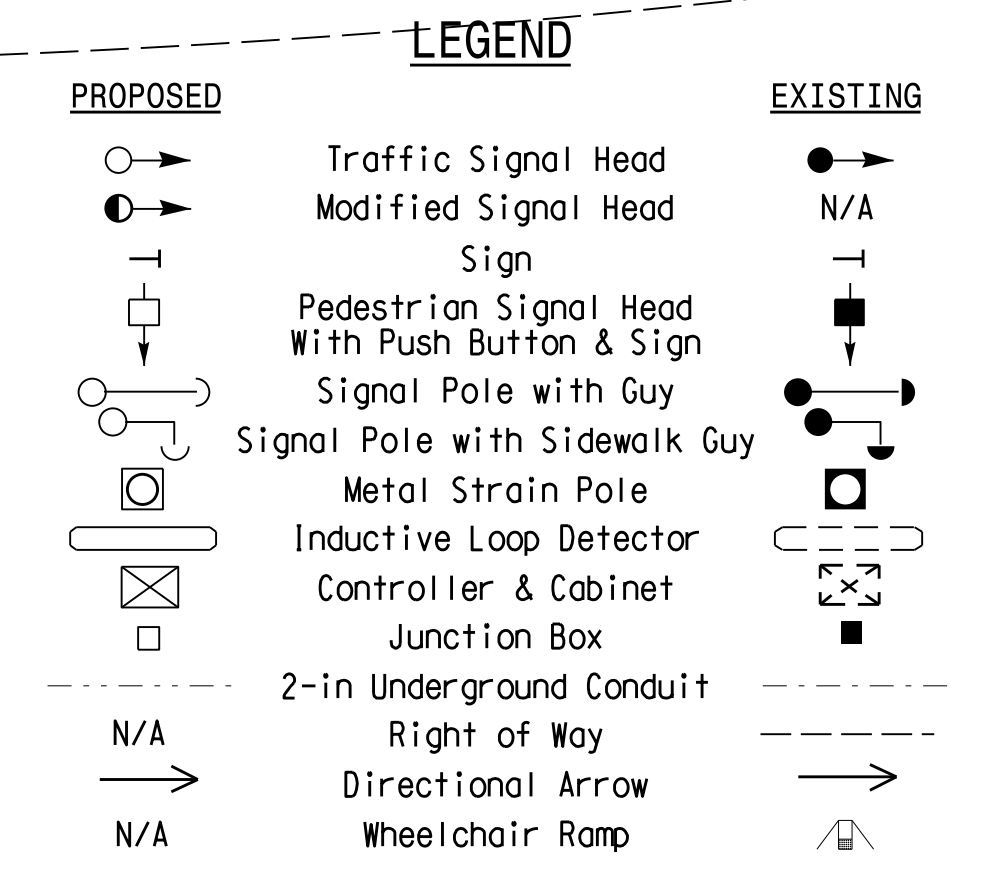
SIGNAL FACE I.D.

All Heads L.E.D.



FEATURE	PHASE			
	2	3	4	6
Min Green *	12	7	7	12
Walk *	0	0	7	0
Ped Clear	0	0	30	0
Veh. Extension *	6.0	2.0	2.0	6.0
Max 1 *	90	25	25	90
Yellow	4.6	3.7	3.2	4.6
Red Clear	1.6	2.9	2.9	1.6
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	-	-	-	-
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 Upgrade

Prepared In the Offices of:  
  
 750 N. Greenfield Pkwy, Garner, NC 27529

NC 162 (Bingham Dr./Bunce Rd.) at SR 1141 (Bingham Dr.) / SR 3328 (Marykirk Dr.)  
 Division 6 Cumberland County Fayetteville  
 PLAN DATE: JUNE 2016 REVIEWED BY: JPG  
 PREPARED BY: KGP, Jr. REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27529  
 SCALE: 1" = 40'  
 REVISIONS: INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED  
 SEAL: JASON P. GALLOWAY, ENGINEER, 029904  
 DATE: 6/17/2016  
 SIG. INVENTORY NO. 06-1266

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