

6 Phase Fully Actuated Fayetteville Signal System NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
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. The order of phase 3 and phase 4 may be reversed.
5. Set all detector units to presence mode.
6. 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.
7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
8. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
9. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
10. Pavement markings are existing.
11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM

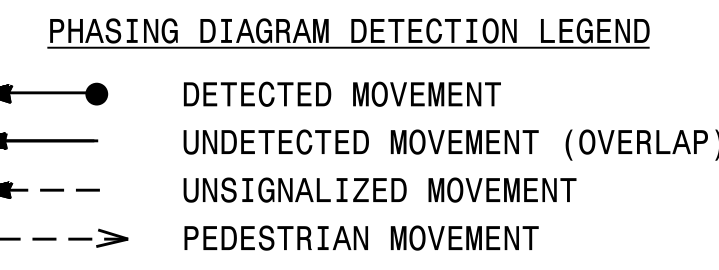
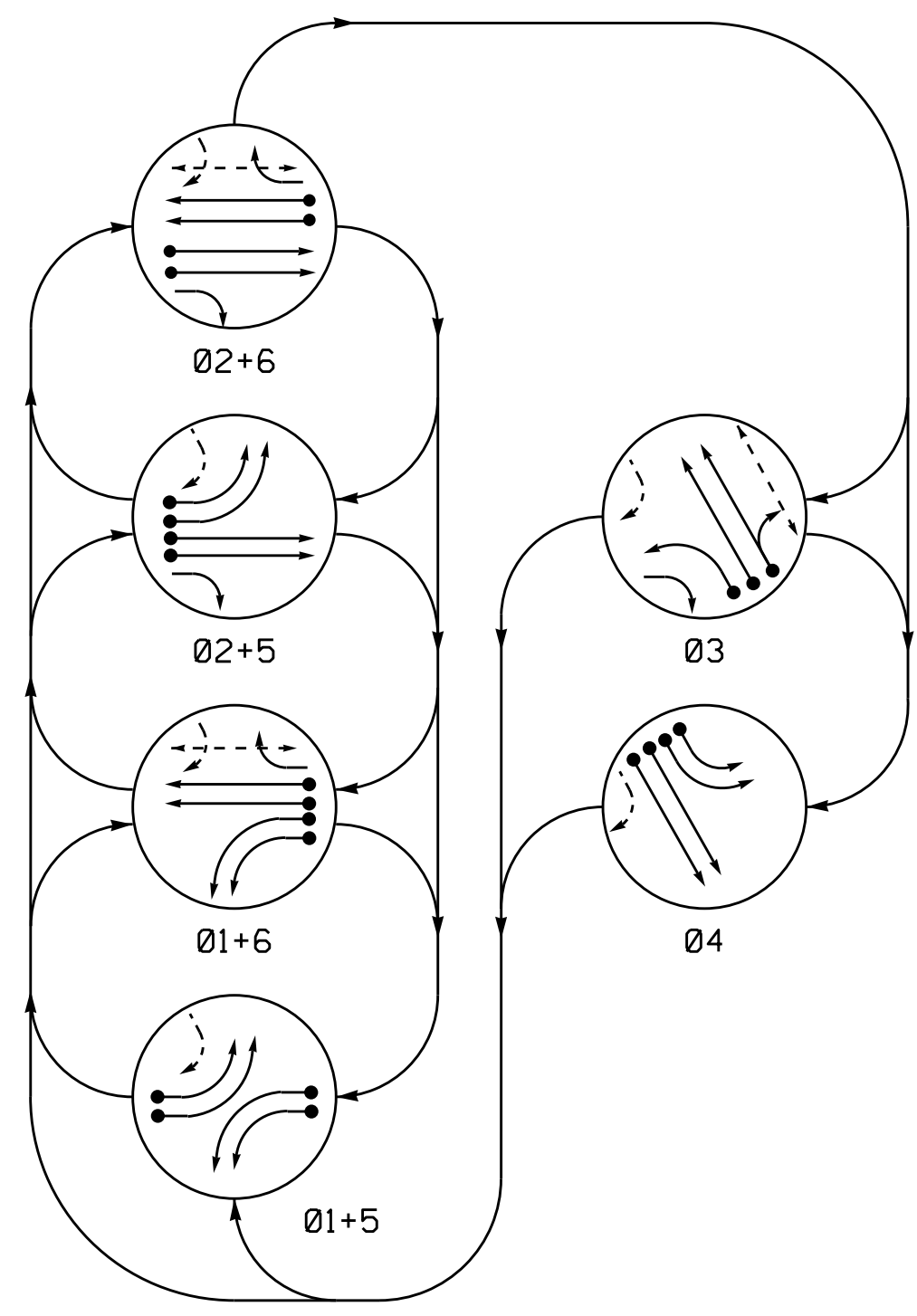
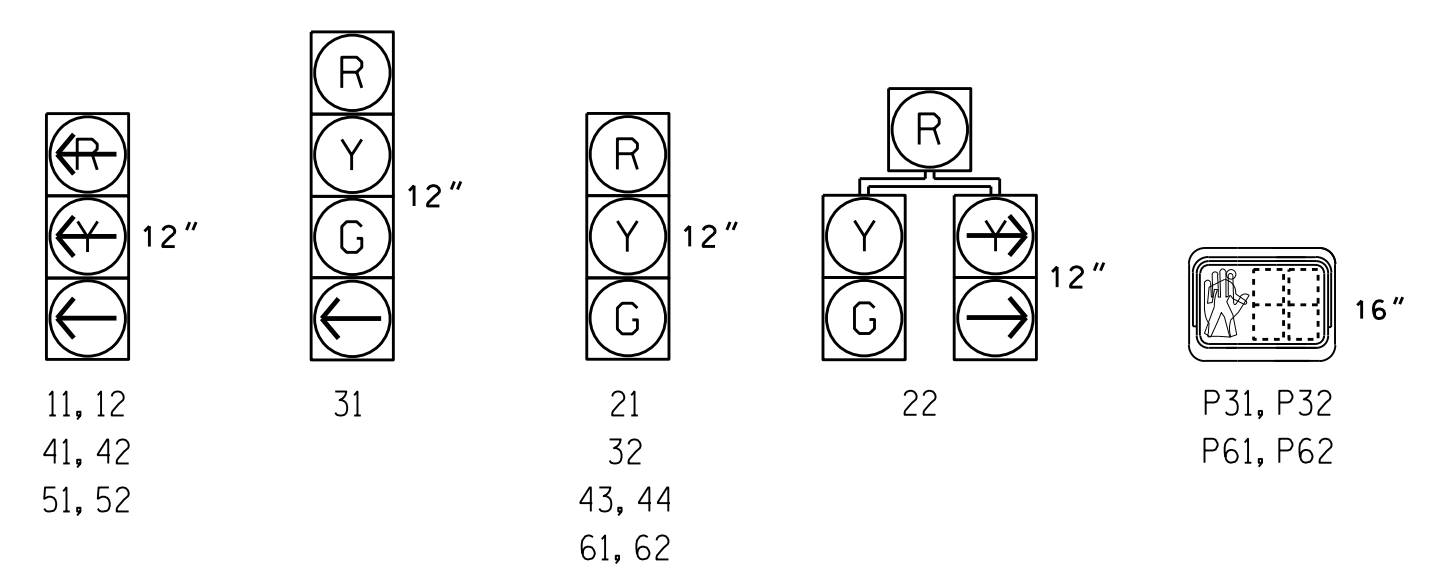


TABLE OF OPERATION

SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5	02+6	03	04	
11, 12	—	—	—	—	—	—	—
21	R	R	G	G	R	R	Y
22	R	R	G	G	—	R	Y
31	R	R	R	R	G	R	R
32	R	R	R	R	G	R	R
41, 42	—	—	—	—	—	—	—
43, 44	R	R	R	R	R	G	R
51, 52	—	—	—	—	—	—	—
61, 62	R	G	R	G	R	R	Y
P31, P32	DW	DW	DW	DW	W	DW	DRK
P61, P62	DW	W	DW	W	DW	DW	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



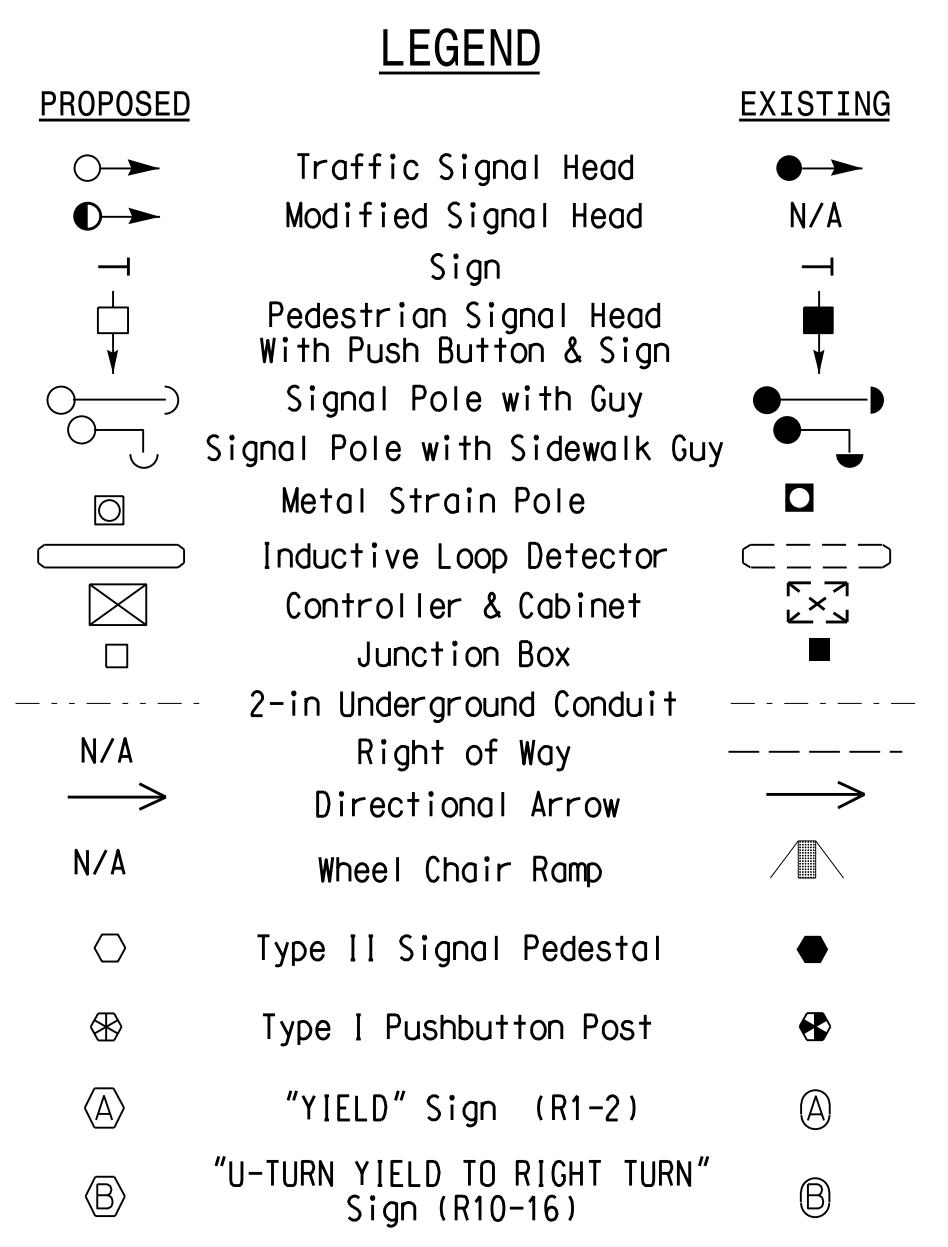
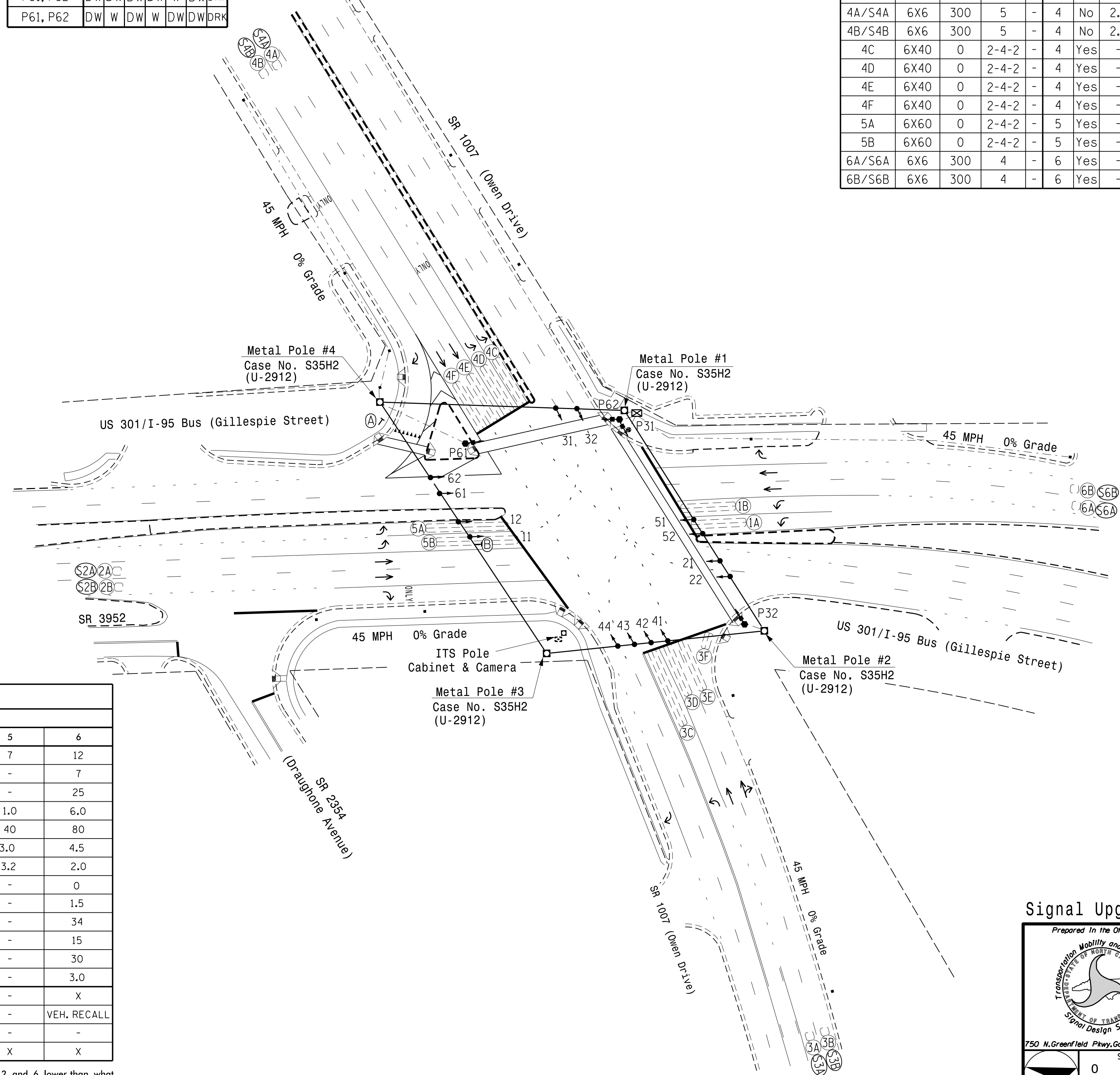
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING						
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	-	1	Yes	-	-	S	-	X
1B	6X40	0	2-4-2	-	1	Yes	-	-	S	-	X
2A/S2A	6X6	300	6	-	2	Yes	-	-	N	X	X
2B/S2B	6X6	300	6	-	2	Yes	-	-	N	X	X
3A/S3A	6X6	300	5	-	3	No	2.4	-	N	X	X
3B/S3B	6X6	300	5	-	3	No	2.4	-	N	X	X
3C	6X60	0	2-4-2	-	3	Yes	-	3	S	-	X
3D	6X40	0	2-4-2	-	3	Yes	-	-	S	-	X
3E	6X40	0	2-4-2	-	3	Yes	-	10	S	-	X
3F	6X12	0	2-4-2	-	3	Yes	-	10	S	-	X
4A/S4A	6X6	300	5	-	4	No	2.4	-	N	X	X
4B/S4B	6X6	300	5	-	4	No	2.4	-	N	X	X
4C	6X40	0	2-4-2	-	4	Yes	-	-	S	-	X
4D	6X40	0	2-4-2	-	4	Yes	-	-	S	-	X
4E	6X40	0	2-4-2	-	4	Yes	-	-	S	-	X
4F	6X40	0	2-4-2	-	4	Yes	-	-	S	-	X
5A	6X60	0	2-4-2	-	5	Yes	-	-	S	-	X
5B	6X60	0	2-4-2	-	5	Yes	-	-	S	-	X
6A/S6A	6X6	300	4	-	6	Yes	-	-	N	X	X
6B/S6B	6X6	300	4	-	6	Yes	-	-	N	X	X

ASC/3 TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green *	7	12	7	7	7	12
Walk *	-	-	7	-	-	7
Ped Clear	-	-	41	-	-	25
Veh. Extension *	1.0	6.0	1.0	1.0	1.0	6.0
Max 1 *	20	80	50	60	40	80
Yellow	3.0	4.5	4.5	4.5	3.0	4.5
Red Clear	3.2	2.0	2.7	3.2	3.2	2.0
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	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:

TRANSPORTATION MOBILITY AND SAFETY DIVISION  
CUMBERLAND COUNTY SIGNAL DESIGN SECTION

US 301/I-95 Business (Gillespie Street) at SR 1007 (Owen Drive)

Division 6 Cumberland County Fayetteville

PLAN DATE: June 2016 REVIEWED BY: JPG, PE

PREPARED BY: EM Minshew REVIEWED BY:

REVISIONS INIT. DATE

SCALE 0 50 1"=50'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

SEAL 029904

SEAL

Jason P. Gallaway 9/13/2016

SIG. INVENTORY NO. 06-0051

13-SEP-2016 10:00  
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