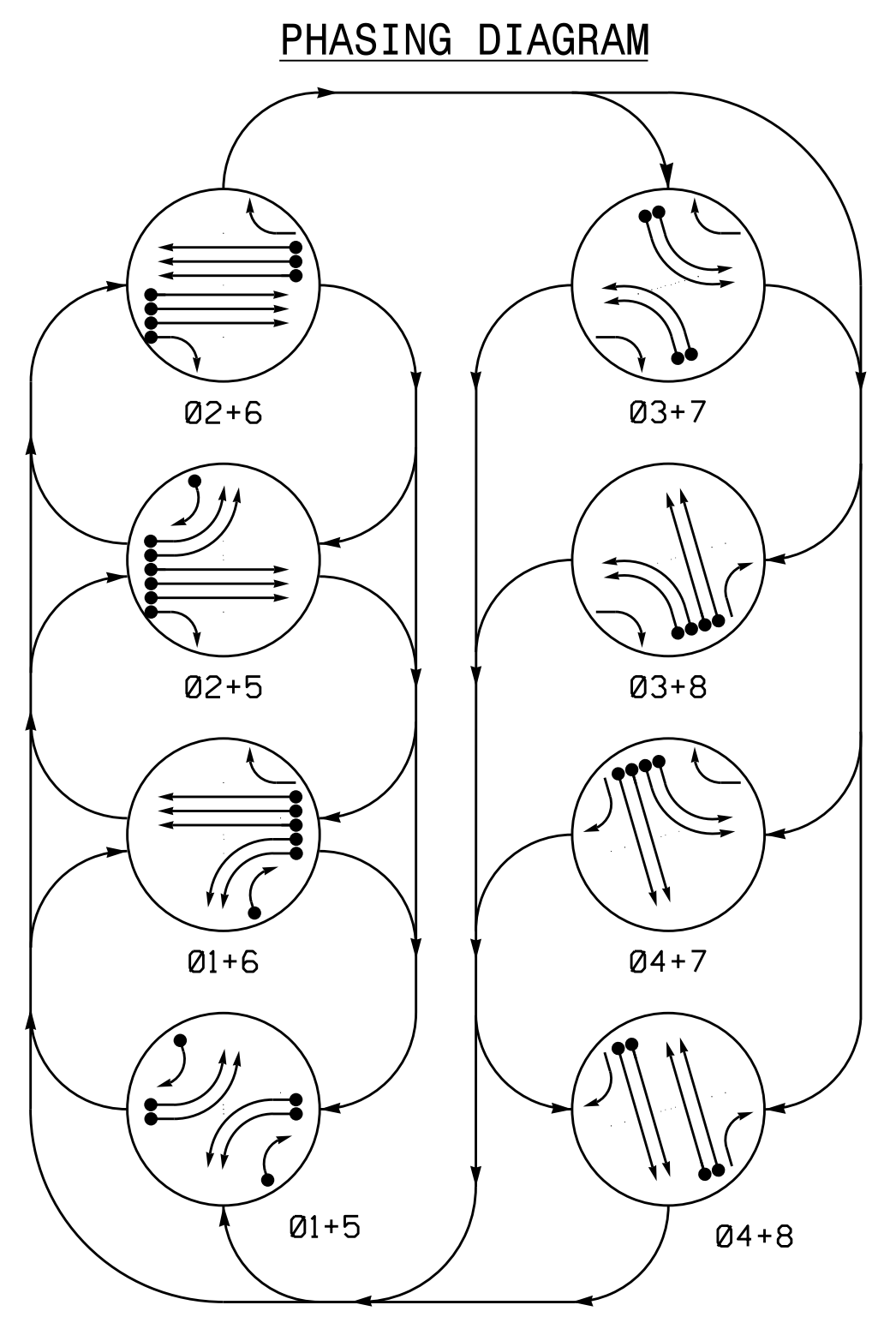


8 Phase Fully Actuated Fayetteville Signal System

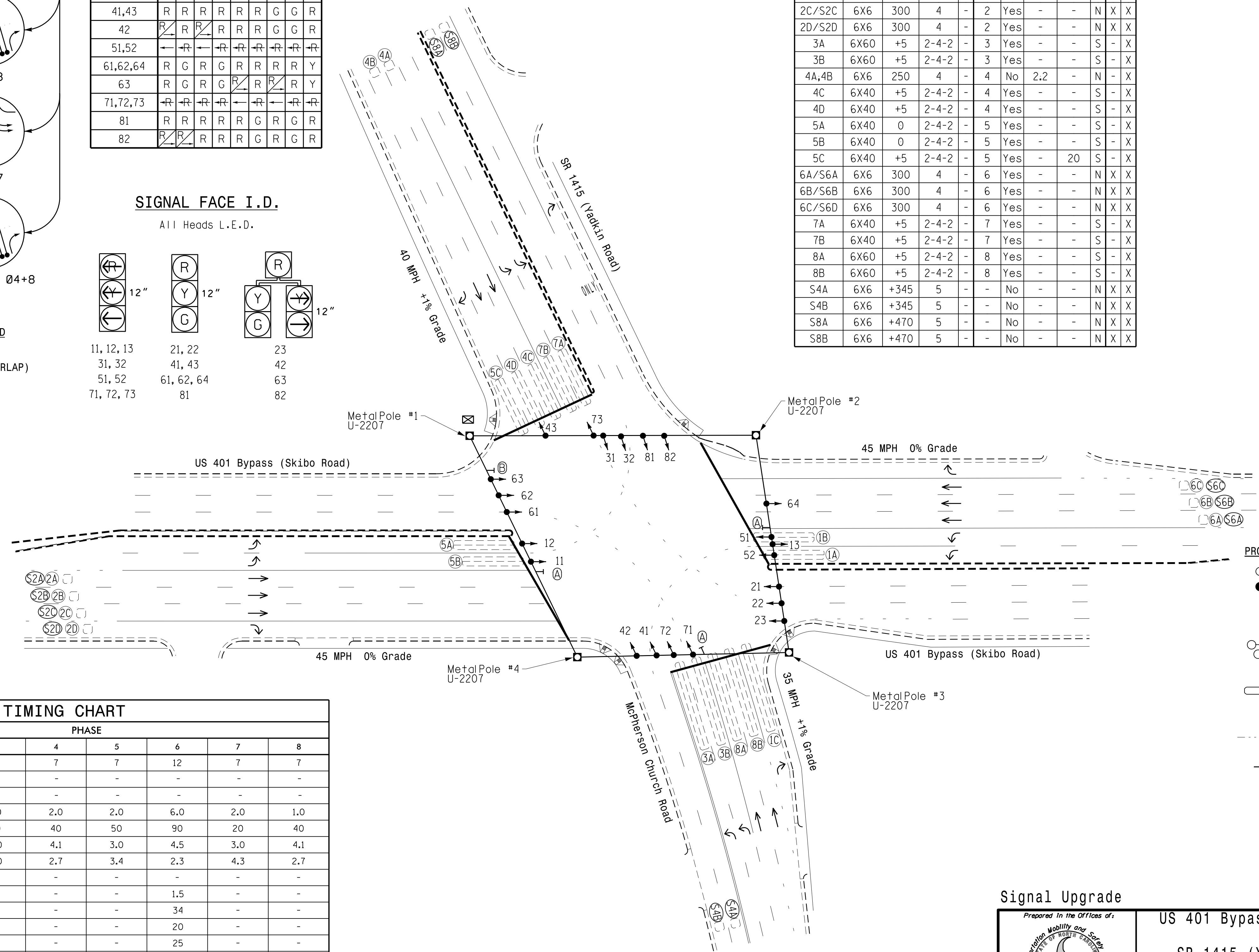
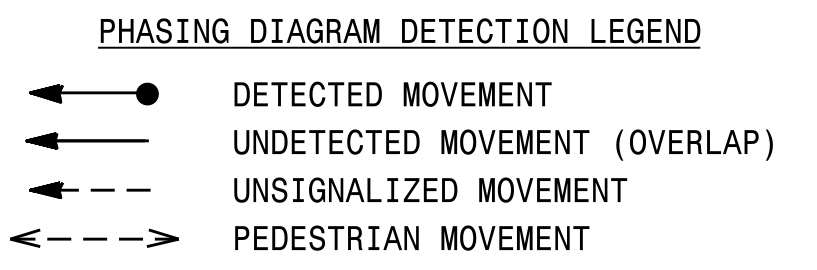
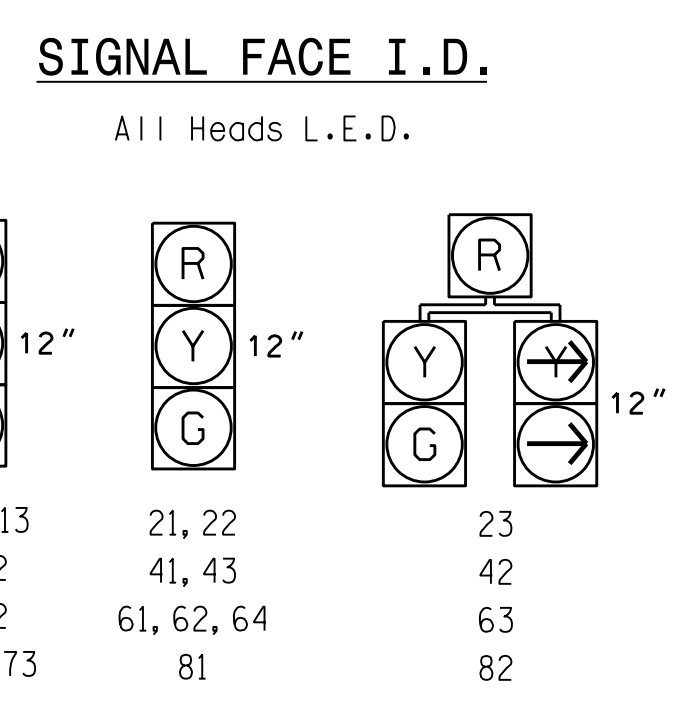
NOTES

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. Phase 3 and/or phase 7 may be lagged.
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. Pavement markings are existing.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

ASC/3 DETECTOR INSTALLATION CHART										
DETECTOR					PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	LOOP NEW CARD
1A	6X40	0	2-4-2	-	1	Yes	-	-	S	- X
1B	6X40	0	2-4-2	-	1	Yes	-	-	S	- X
1C	6X60	+5	2-4-2	-	1	Yes	-	20	S	- X
2A/S2A	6X6	300	4	-	2	Yes	-	-	N	X X
2B/S2B	6X6	300	4	-	2	Yes	-	-	N	X X
2C/S2C	6X6	300	4	-	2	Yes	-	-	N	X X
2D/S2D	6X6	300	4	-	2	Yes	-	-	N	X X
3A	6X60	+5	2-4-2	-	3	Yes	-	-	S	- X
3B	6X60	+5	2-4-2	-	3	Yes	-	-	S	- X
4A,4B	6X6	250	4	-	4	No	2.2	-	N	- X
4C	6X40	+5	2-4-2	-	4	Yes	-	-	S	- X
4D	6X40	+5	2-4-2	-	4	Yes	-	-	S	- X
5A	6X40	0	2-4-2	-	5	Yes	-	-	S	- X
5B	6X40	0	2-4-2	-	5	Yes	-	-	S	- X
5C	6X40	+5	2-4-2	-	5	Yes	-	20	S	- X
6A/S6A	6X6	300	4	-	6	Yes	-	-	N	X X
6B/S6B	6X6	300	4	-	6	Yes	-	-	N	X X
6C/S6C	6X6	300	4	-	6	Yes	-	-	N	X X
7A	6X40	+5	2-4-2	-	7	Yes	-	-	S	- X
7B	6X40	+5	2-4-2	-	7	Yes	-	-	S	- X
8A	6X60	+5	2-4-2	-	8	Yes	-	-	S	- X
8B	6X60	+5	2-4-2	-	8	Yes	-	-	S	- X
S4A	6X6	+345	5	-	-	No	-	-	N	X X
S4B	6X6	+345	5	-	-	No	-	-	N	X X
S8A	6X6	+470	5	-	-	No	-	-	N	X X
S8B	6X6	+470	5	-	-	No	-	-	N	X X

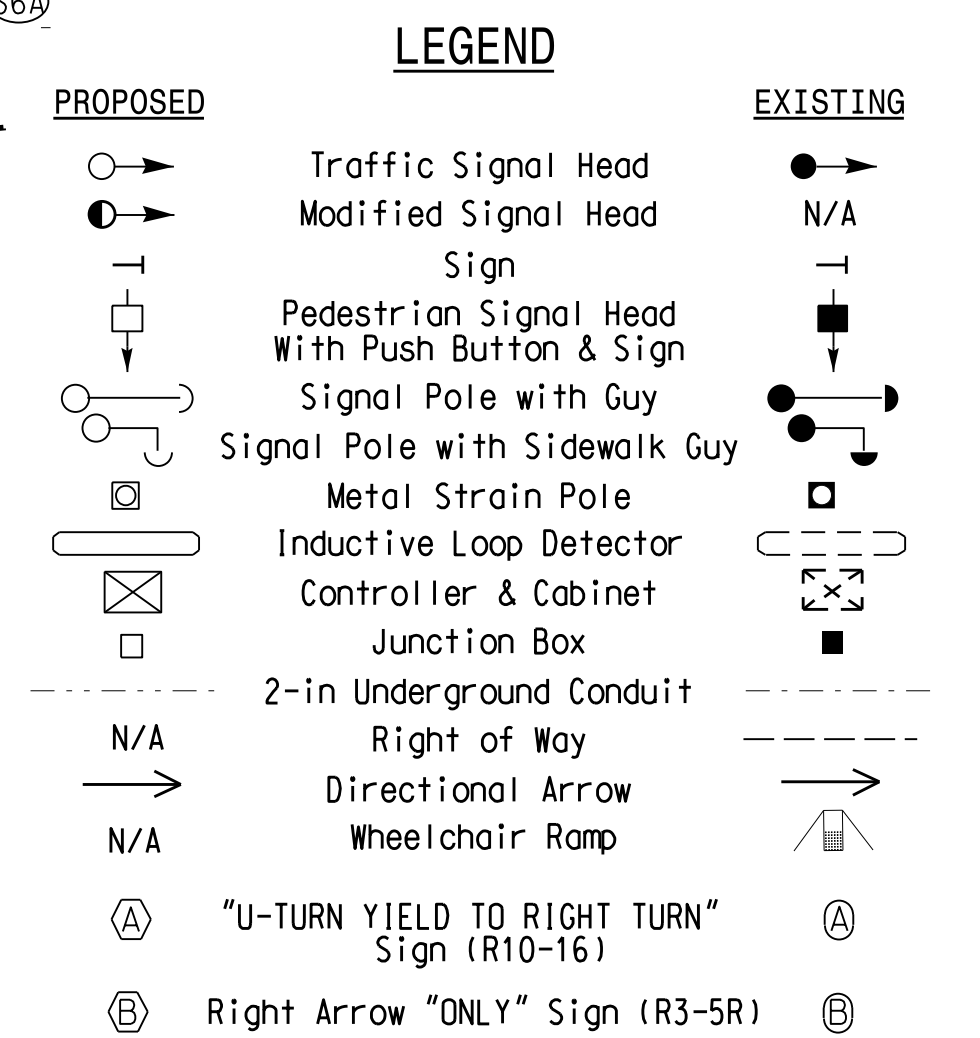


SIGNAL FACE	PHASE								FLASH
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8	
11,12,13	---	---	---	---	---	---	---	---	---
21,22	R	R	G	G	R	R	R	R	Y
23	R	R	G	G	R	R	R	R	Y
31,32	---	---	---	---	---	---	---	---	---
41,43	R	R	R	R	R	R	G	G	R
42	R	R	R	R	R	R	G	G	R
51,52	---	---	---	---	---	---	---	---	---
61,62,64	R	G	R	G	R	R	R	R	Y
63	R	G	R	G	R	R	R	R	Y
71,72,73	---	---	---	---	---	---	---	---	---
81	R	R	R	R	R	G	R	G	R
82	R	R	R	R	R	G	R	G	R



FEATURE	ASC/3 TIMING CHART							
	1	2	3	4	5	6	7	8
Min Green *	7	12	7	7	7	12	7	7
Walk *	-	-	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-	-	-
Veh. Extension *	2.0	6.0	1.0	2.0	2.0	6.0	2.0	1.0
Max 1 *	25	90	20	40	50	90	20	40
Yellow	3.0	4.5	3.0	4.1	3.0	4.5	3.0	4.1
Red Clear	3.3	2.3	4.0	2.7	3.4	2.3	4.3	2.7
Actuations B4 Add *	-	-	-	-	-	-	-	-
Seconds / Actuation *	-	1.5	-	-	-	1.5	-	-
Max Initial *	-	34	-	-	-	34	-	-
Time Before Reduction *	-	20	-	-	-	20	-	-
Time To Reduce *	-	25	-	-	-	25	-	-
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	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

US 401 Bypass (Skibo Road) At SR 1415 (Yadkin Road)/ McPherson Church Road

Division 6 Cumberland County Fayetteville

PLAN DATE: October 2015 REVIEWED BY: JPG, PE

PREPARED BY: EM Minshew REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE 1"=40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL Jason P. Gallaway 029904

2/19/2016

SIG. INVENTORY NO. 06-0055

02-1-15-2016 10:47  
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