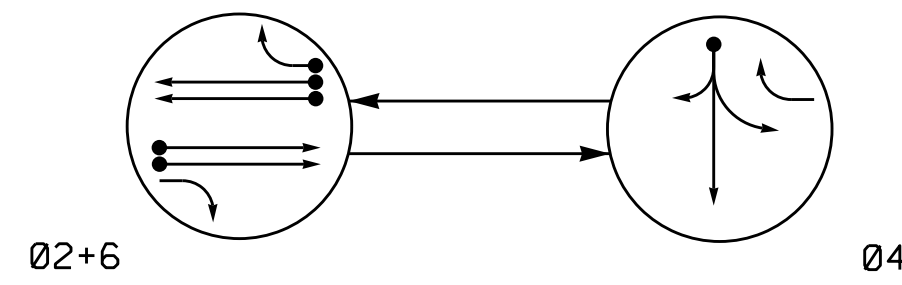
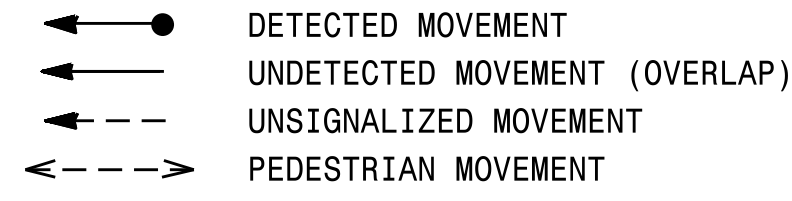


PHASING DIAGRAM



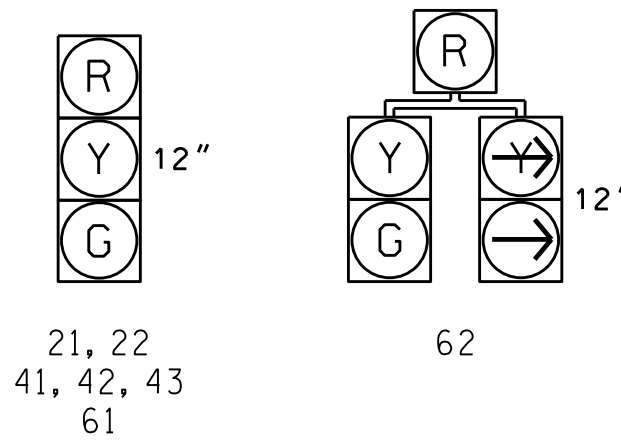
PHASING DIAGRAM DETECTION LEGEND



SIGNAL FACE	PHASE		
	2	4	6
21, 22	G	R	Y
41, 42, 43	R	G	R
61	G	R	Y
62	G	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.

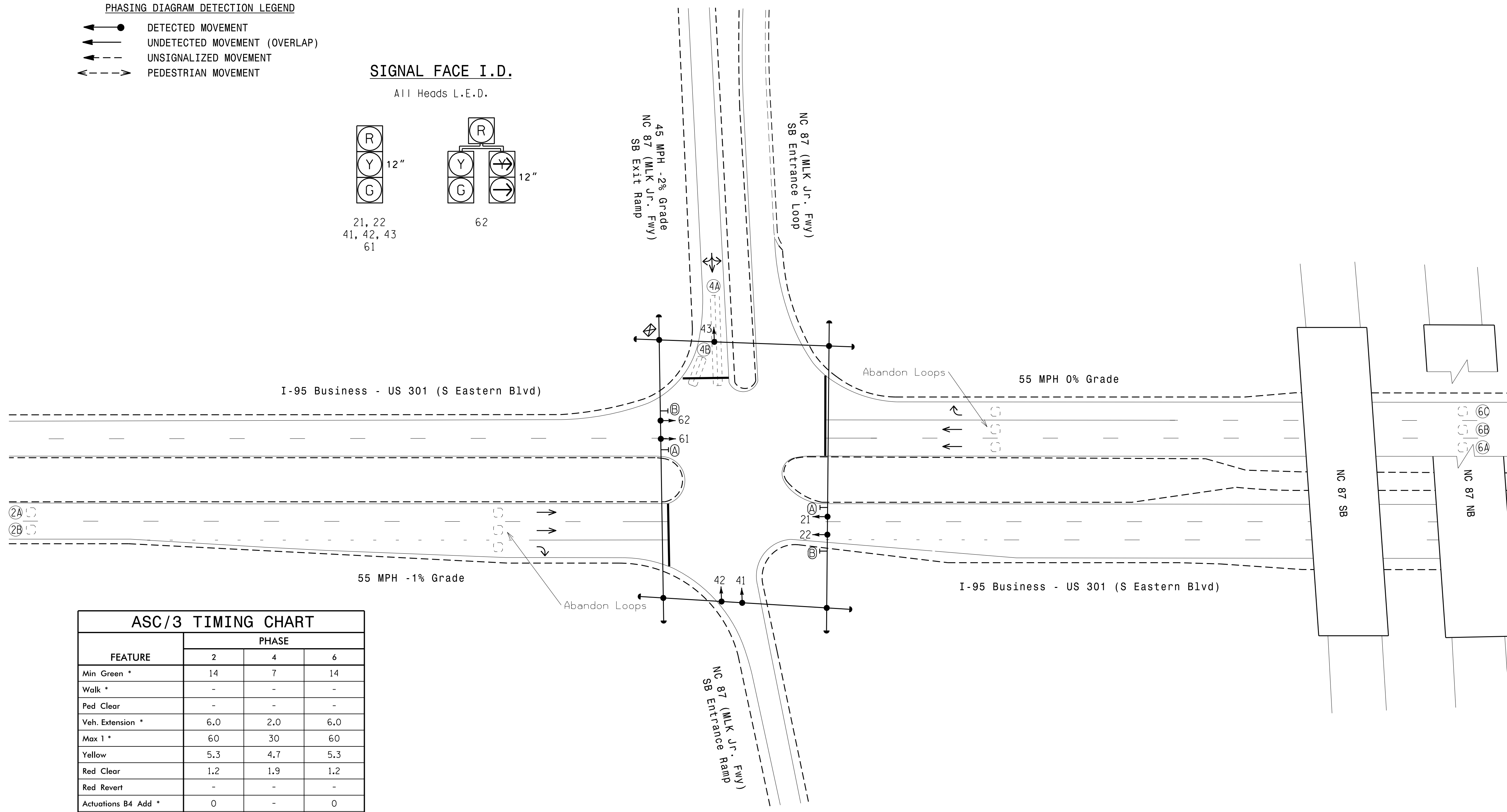


ASC/3 DETECTOR INSTALLATION CHART										
DETECTOR					PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	NEW CARD
2A, 2B	6X6	420	5	-	2	Yes	-	-	N	X
4A	6X60	+5	2-4-2	-	4	Yes	-	-	S	X
4B	6X20	+5	2-4-2	-	4	Yes	-	15	S	X
6A,6B,6C	6X6	420	5	-	6	Yes	-	-	N	X

2 Phase Fully Actuated Fayetteville Signal System

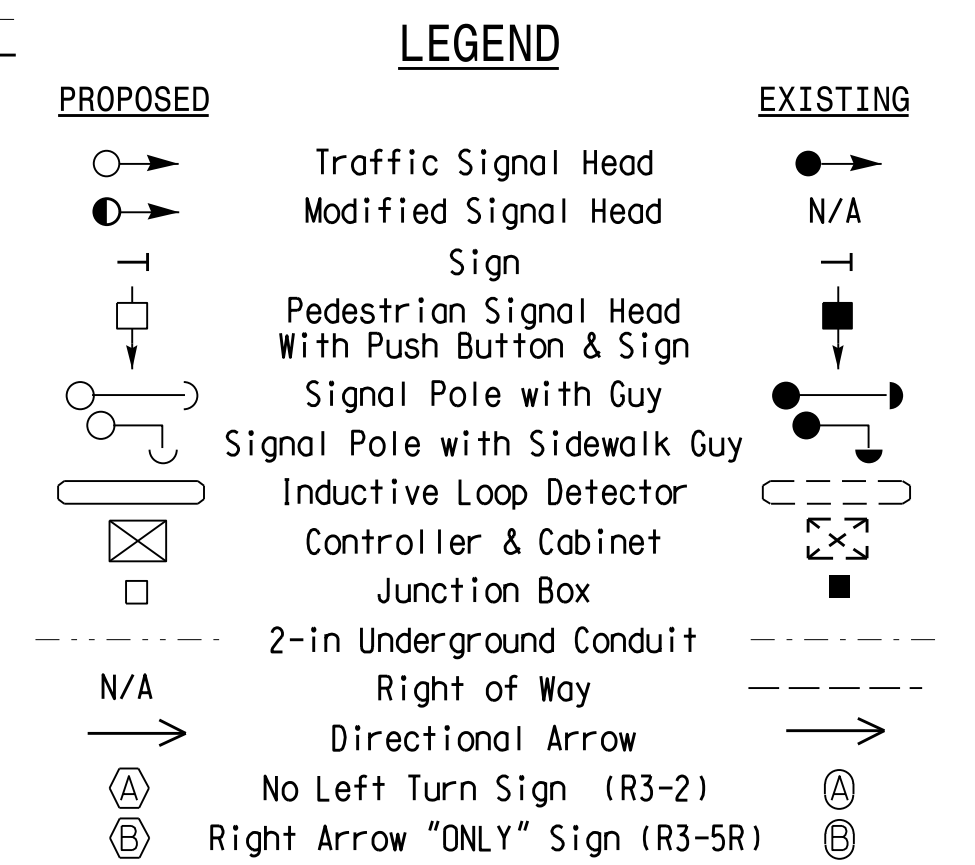
NOTES

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. Set all detector units to presence mode.
4. 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.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Pavement markings are existing.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



FEATURE	PHASE		
	2	4	6
Min Green *	14	7	14
Walk *	-	-	-
Ped Clear	-	-	-
Veh. Extension *	6.0	2.0	6.0
Max 1 *	60	30	60
Yellow	5.3	4.7	5.3
Red Clear	1.2	1.9	1.2
Red Revert	-	-	-
Actuations B4 Add *	0	-	0
Seconds /Actuation *	2.0	-	2.0
Max Initial *	46	-	46
Time Before Reduction *	15	-	15
Time To Reduce *	30	-	30
Minimum Gap	3.4	-	3.4
Locking Detector	X	-	X
Recall Position	VEH. RECALL	-	VEH. RECALL
Dual Entry	-	-	-
Simultaneous Gap	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 SOLUTIONS
 A DIVISION OF NORTH CAROLINA PROFESSIONAL ENGINEERS AND SURVEYORS
 Signal Design Section

750 N. Greenfield Pkwy, Garner, NC 27529

0 SCALE 40
1"=40'

I-95 Bus. - US 301 (S Eastern Blvd) at NC 87 (Martin Luther King, Jr. Fwy) SB Exit and Entrance Ramps

Division 6 Cumberland County Fayetteville

PLAN DATE: May 2016 REVIEWED BY: JPG

PREPARED BY: Devin Smith REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by: Jason P. Gallaway 5/18/2016

SEAL NORTH CAROLINA PROFESSIONAL ENGINEERS AND SURVEYORS SEAL 029904 JASON P. GALLAWAY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIG. INVENTORY NO. 06-0916

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