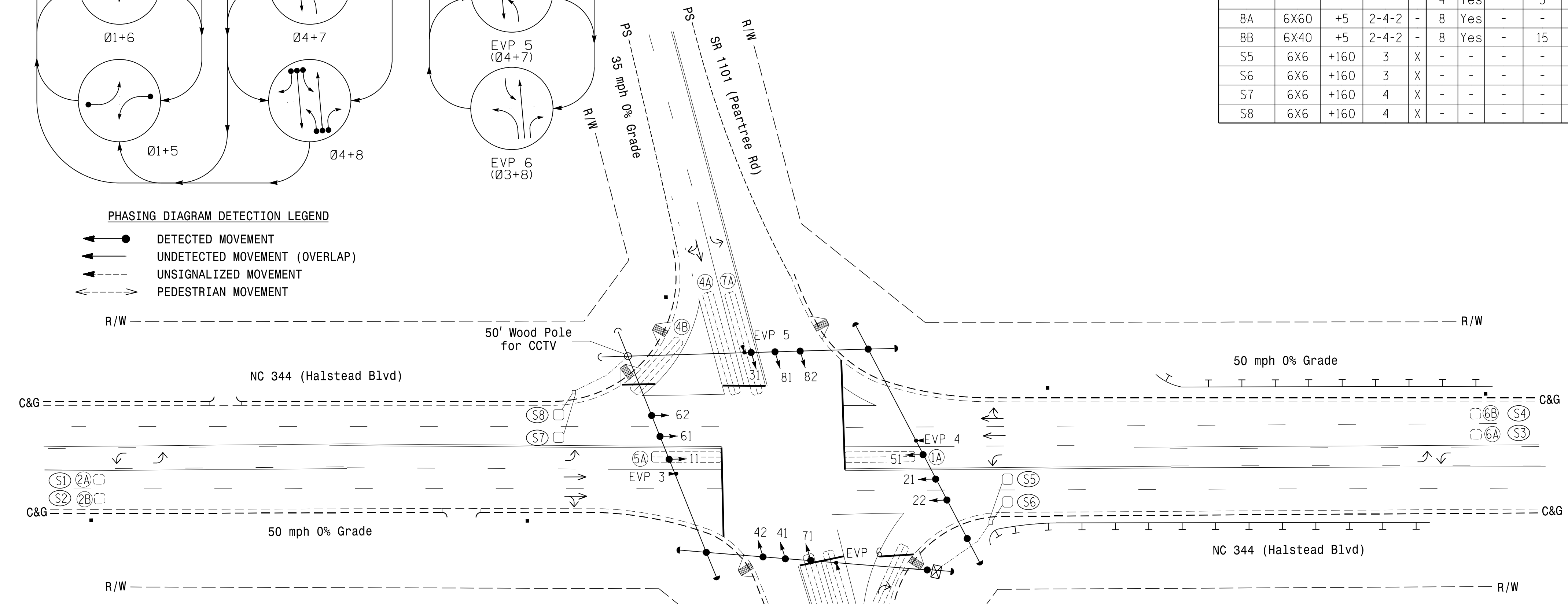


SIGNAL FACE	PHASE											
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8	EVP 3	EVP 4	EVP 5	EVP 6
11	←	←	←	←	←	←	←	←	←	←	←	←
21,22	R	R	G	G	R	R	R	R	G	R	R	Y
31	←	←	←	←	←	←	←	←	←	←	←	←
41,42	R	R	R	R	R	R	R	G	G	R	R	G
51	←	←	←	←	←	←	←	←	←	←	←	←
61,62	R	G	R	G	R	R	R	R	G	R	R	Y
71	←	←	←	←	←	←	←	←	←	←	←	←
81,82	R	R	R	R	R	R	R	G	R	R	R	G

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	-	1	Yes	-	15	-	S	-	X
2A/S1	6X6	355	EXIST	-	2	Yes	-	-	-	X	N	X
2B/S2	6X6	355	EXIST	-	2	Yes	-	-	-	X	N	X
3A	6X60	+5	2-4-2	-	3	Yes	-	15	-	S	-	X
4A	6X60	+5	2-4-2	-	4	Yes	-	-	-	S	-	X
4B	6X40	+5	2-4-2	-	4	Yes	-	15	-	S	-	X
5A	6X40	0	2-4-2	-	5	Yes	-	15	-	S	-	X
6A/S3	6X6	355	EXIST	-	6	Yes	-	-	-	X	N	X
6B/S4	6X6	355	EXIST	-	6	Yes	-	-	-	X	N	X
7A	6X60	+5	2-4-2	-	7	Yes	-	15	-	S	-	X
8A	6X60	+5	2-4-2	-	8	Yes	-	-	-	S	-	X
8B	6X40	+5	2-4-2	-	8	Yes	-	15	-	S	-	X
S5	6X6	+160	3	X	-	-	-	-	-	N	X	X
S6	6X6	+160	3	X	-	-	-	-	-	N	X	X
S7	6X6	+160	4	X	-	-	-	-	-	N	X	X
S8	6X6	+160	4	X	-	-	-	-	-	N	X	X

8 Phase Fully Actuated w/ EV Preemption (Elizabeth City Signal System) NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- 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.
- Pavement markings are existing.
- This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
- Optical detector 3 calls EVP 3; Optical detector 4 calls EVP 4; Optical detector 5 calls EVP 5; Optical detector 6 calls EVP 6.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

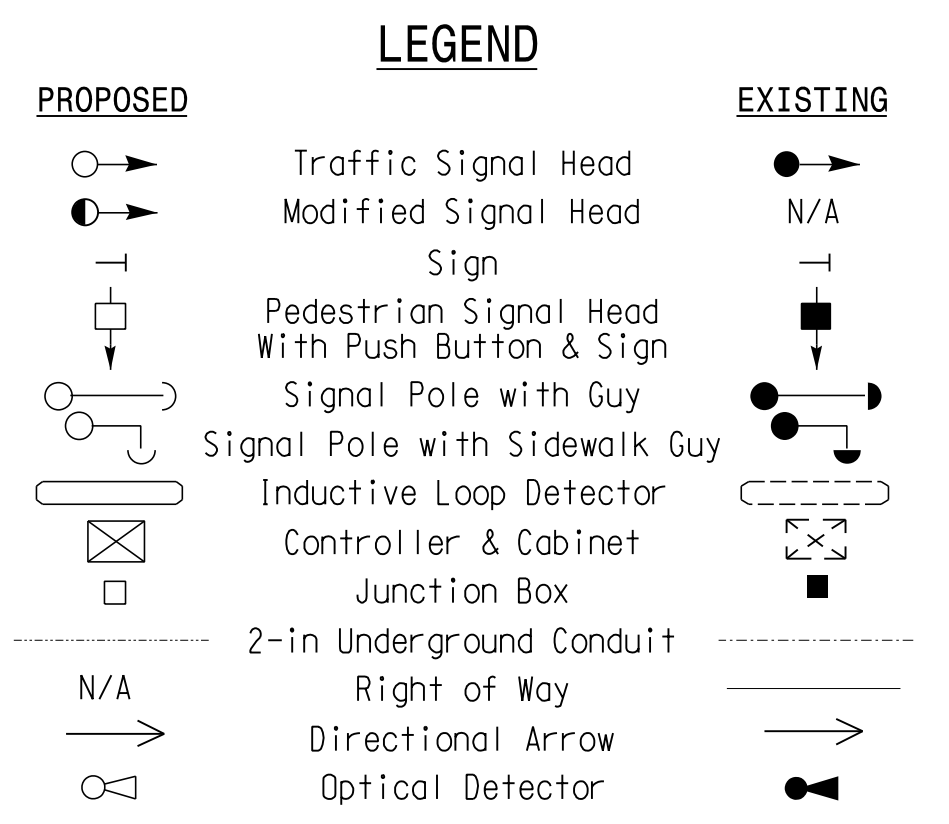


FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green *	7	14	7	7	7	14	7	7
Walk *	-	-	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-	-	-
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max 1 *	15	90	15	20	15	90	15	20
Yellow	3.0	4.8	3.0	4.5	3.0	4.8	3.0	4.5
Red Clear	1.8	1.0	2.9	1.8	1.8	1.0	2.6	1.8
Actuations B4 Add *	-	0	-	-	-	0	-	-
Seconds / Actuation *	-	1.5	-	-	-	1.5	-	-
Max Initial *	-	40	-	-	-	40	-	-
Time Before Reduction *	-	20	-	-	-	20	-	-
Time To Reduce *	-	50	-	-	-	50	-	-
Minimum Gap	-	3.3	-	-	-	3.3	-	-
Locking Detector	-	X	-	-	-	X	-	-
Recall Position	-	VEH. RECALL	-	-	-	VEH. 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.

FUNCTION	PRE 3	PRE 4	PRE 5	PRE 6
Exit Phase(s)	2,6	2,6	2,6	2,6
Preempt Override	OFF	OFF	OFF	OFF
Delay Time	0	0	0	0
Ped Clear Through Yellow	N	N	N	N
Terminate Phases	N	N	N	N
Entrance Walk	255*	255*	255*	255*
Entrance Ped Clear	255*	255*	255*	255*
Entrance Min Green	1	1	1	1
Entrance Yellow Change	25.5*	25.5*	25.5*	25.5*
Entrance Red Clear	25.5*	25.5*	25.5*	25.5*
Minimum Dwell Time	12	12	7	7
Preempt Input Extension Time	2	2	2	2
Preempt Max Time	120	120	120	120
Exit Yellow Change	25.5*	25.5*	25.5*	25.5*
Exit Red Clear	25.5*	25.5*	25.5*	25.5*

\*Time defaults to time used for phase during normal operation



Signal Upgrade

Prepared for the Offices of:  
  
 750 N. Greenfield Pkwy, Garner, NC 27529  
 SCALE 1"=40'

NC 344 (Halstead Boulevard) At SR 1101 (Peartree Road)  
 Division 1 Pasquotank County Elizabeth City  
 PLAN DATE: September 2018 REVIEWED BY: CBHolden  
 PREPARED BY: DTSears REVIEWED BY:  
 REVISIONS: INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED  
  
 DocuSigned by: C. Byron Holden 9/21/2018  
 DATE: 9/21/2018  
 SIG. INVENTORY NO. 01-0217

PLANS PREPARED BY:  
  
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