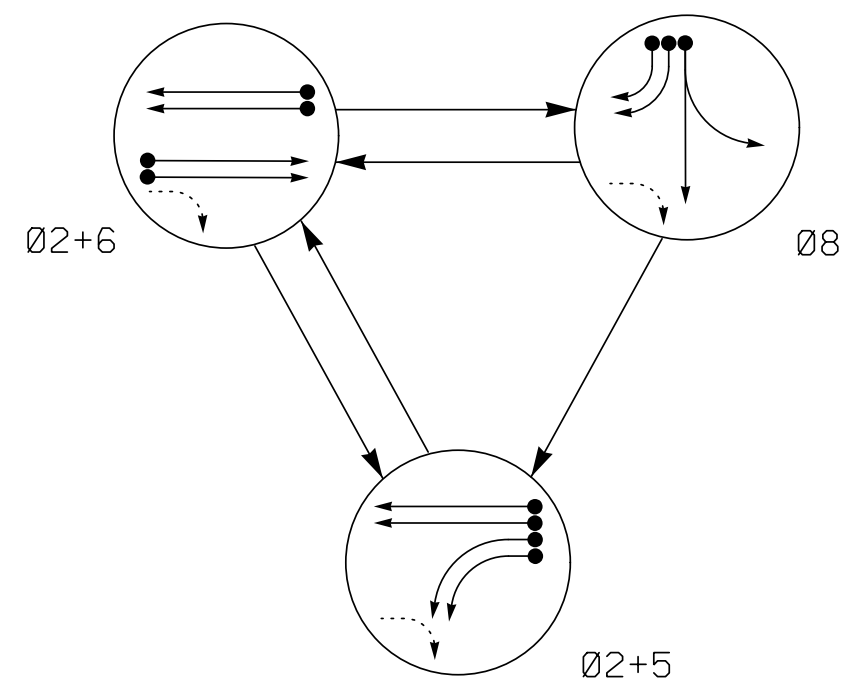


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- - - UNSIGNALIZED MOVEMENT

EV PREEMPT PHASES
(Medium Priority)

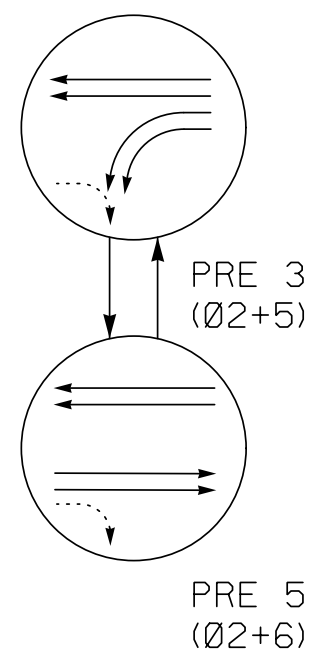
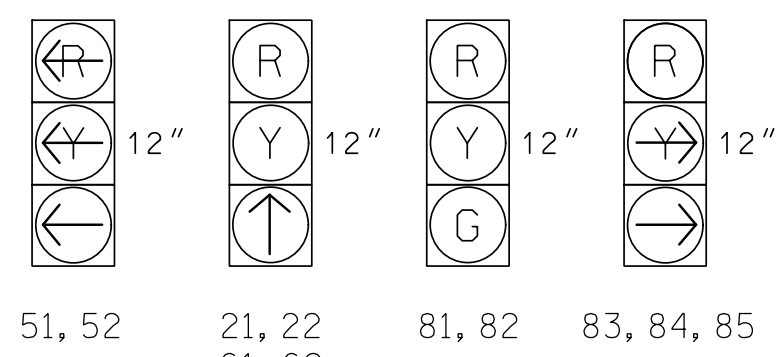


TABLE OF OPERATION

SIGNAL FACE	PHASE							
	02+5	02+6	08	PRE 3	PRE 5	08	08	Y
21, 22	↑	↑	R	↑	↑	Y		
51, 52	←	←	R	←	←	R		
61, 62	R	↑	R	R	↑	Y		
81, 82	R	R	G	R	R	R		
83, 84, 85	R	R	→	R	R	R		

SIGNAL FACE I.D.

All Heads L.E.D.



ASC/3 DETECTOR INSTALLATION CHART

ZONE	DETECTOR				PROGRAMMING							
	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
2A	6x6	70	*	*	2	Yes	-	-	-	S	-	*
2B	6x6	70	*	*	2	Yes	-	-	-	S	-	*
5A	6x40	0	*	*	5	Yes	-	-	-	S	-	*
5B	6x40	0	*	*	5	Yes	-	-	-	S	-	*
6A	6x6	70	*	*	6	Yes	-	-	-	S	-	*
6B	6x6	70	*	*	6	Yes	-	-	-	S	-	*
8A	6x40	0	*	*	8	Yes	-	-	-	S	-	*
8B	6x40	0	*	*	8	Yes	-	15	-	S	-	*
8C	6x40	0	*	*	8	Yes	-	15	-	S	-	*
S6	6X6	+150	*	*	-	No	-	-	-	N	X	*
S7	6X6	+150	*	*	-	No	-	-	-	N	X	*
S24	6X6	+160	*	*	-	No	-	-	-	N	X	*
S25	6X6	+160	*	*	-	No	-	-	-	N	X	*

* Video Detection Zone

3 Phase Fully Actuated w/ Emergency Vehicle Preemption SR 1007 (Mebane Oaks Rd) CLS Signal System: 10705

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 5 may be lagged.
4. Reposition existing signal heads numbered 21, 22, 51, 52, 85 and sign B.
5. Set all detector units to presence mode.
6. This intersection features a GPS Emergency Vehicle Preemption system.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
8. Closed loop system data: Controller Asset #: 2024.

ASC/3 TIMING CHART

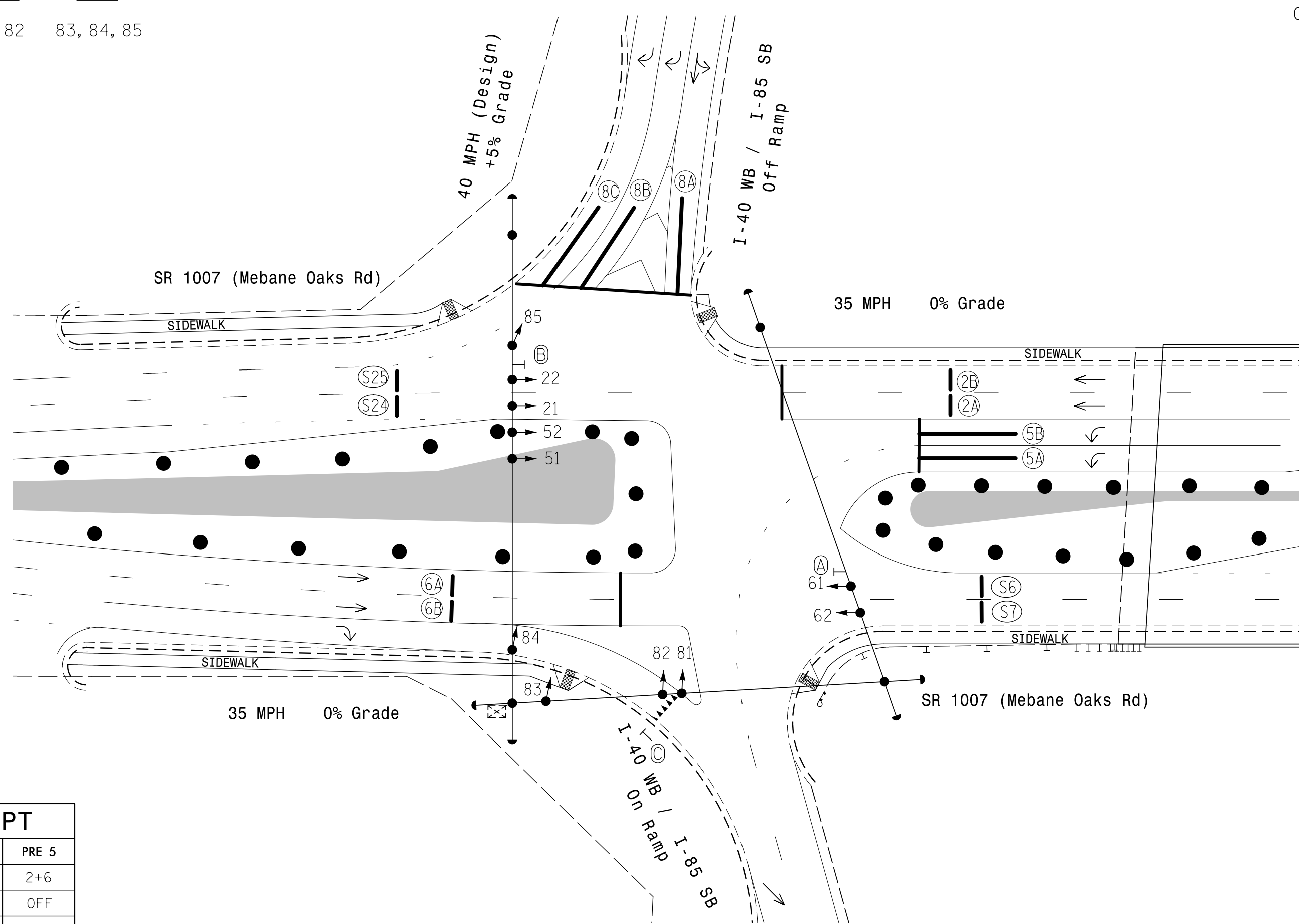
FEATURE	PHASE			
	2	5	6	8
Min Green *	10	7	10	7
Walk *	0	0	0	0
Ped Clear	0	0	0	0
Veh. Extension *	3.0	2.0	3.0	2.0
Max 1 *	60	25	60	35
Yellow	3.8	3.0	3.8	3.8
Red Clear	3.2	3.6	1.4	3.0
Red Revert	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-
Seconds / Actuation *	-	-	-	-
Max Initial *	-	-	1	1
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
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.

ASC/3 EV PREEMPT

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

* Time defaults to time used for phase during normal operation

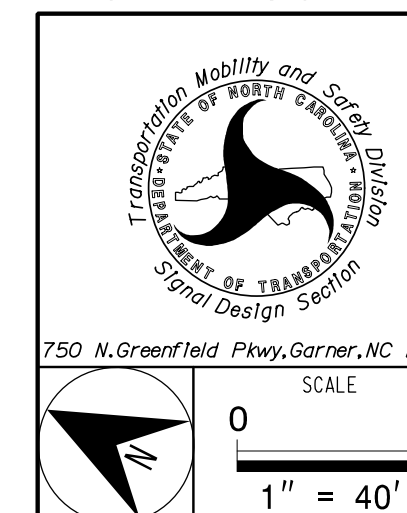


LEGEND

- | PROPOSED | EXISTING |
|---|---|
| ○ → Traffic Signal Head | ● → Traffic Signal Head |
| ┆ Sign | ┆ Sign |
| ○ Signal Pole with Guy | ● Signal Pole with Guy |
| ○ Signal Pole with Sidewalk Guy | ● Signal Pole with Sidewalk Guy |
| □ Controller & Cabinet | □ Controller & Cabinet |
| □ Junction Box | □ Junction Box |
| - - - 2-in Underground Conduit | - - - 2-in Underground Conduit |
| N/A Right of Way | - - - Right of Way |
| → Directional Arrow | → Directional Arrow |
| ▬ Construction Zone Drums | ▬ Construction Zone Drums |
| ▬ Construction Zone | ▬ Construction Zone |
| ▬ Video Detection Area | ▬ Video Detection Area |
| N/A Curb Ramp | ▬ Curb Ramp |
| N/A Guardrail | ▬ Guardrail |
| (A) No U Turn / No Left Turn Sign (R3-18) | (A) No U Turn / No Left Turn Sign (R3-18) |
| (B) No Right Turn Sign (R3-1) | (B) No Right Turn Sign (R3-1) |
| (C) "YIELD" Sign (R1-2) | (C) "YIELD" Sign (R1-2) |

(TMP Phase III) Signal Upgrade - Temporary Design 3

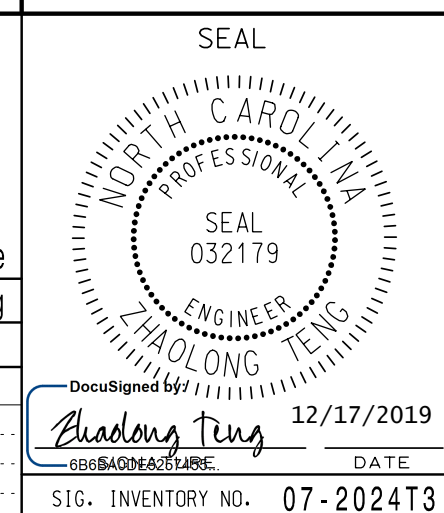
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Cary, NC 27511
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NC License No. P-1442



SR 1007 (Mebane Oaks Road) at I-40 WB / I-85 SB Ramps
Division 7 Alamance County Mebane
PLAN DATE: November 2019 REVIEWED BY: Z. "Gavin" Teng
PREPARED BY: Z. "Gavin" Teng REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



12/17/2019
DATE
SIG. INVENTORY NO. 07-2024T3