

SIGNAL FACE I.D.

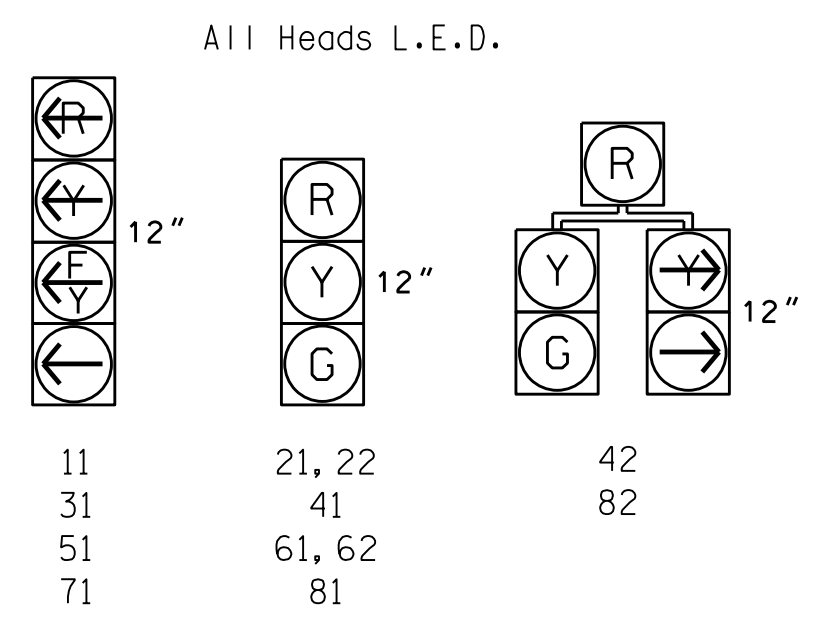


TABLE OF OPERATION

SIGNAL FACE	PHASE															
	01+5	01+6	02+5	02+6	04+8	RC	RE	RD	RL	RD	RL	RD	RL	RD	RL	RD
11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21, 22	R	R	G	G	R	R	G	G	R	R	G	G	R	R	G	R
31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
41	R	R	R	R	G	R	R	R	G	R	R	R	G	R	R	Y
42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
61, 62	R	G	R	G	R	R	G	R	R	R	G	R	R	G	R	Y
71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
81	R	R	R	R	G	R	R	R	G	R	R	R	G	R	R	Y
82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SIGN A	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	*
SIGN D	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	*

* See Note 10

5 Phase Fully Actuated w/ RR Preemption (High Point Signal System)

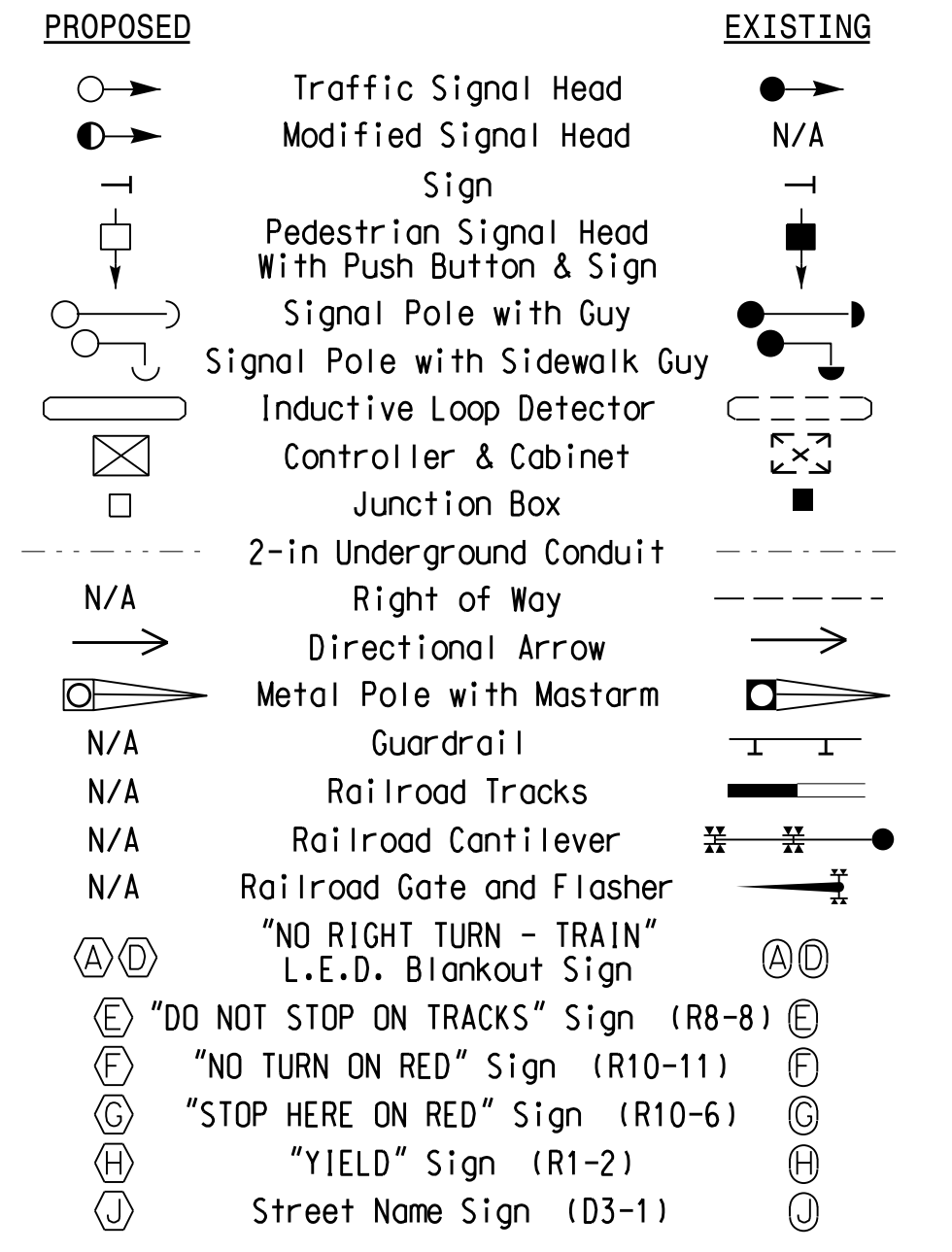
NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- This location contains railroad preemption phasing. Do not program signal for late night flashing operation.
- Omit phases 3 and 7 during normal operation.
- Phase 1 and/or phase 5 may be lagged.
- Reposition existing signal heads numbered 22, 42, 62, and 82.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Program controller to start up phase 4+8 green.
- Remove existing "NO LEFT TURN-TRAIN" blankout signs.
- Ensure flashing operation does not alter operation of blankout signs.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD		
					PHASE	CALLING	EXTENSION FULL TIME DELAY	STRETCH TIME			DELAY TIME	
1A	6X40	0	2-4-2	-	1	Y	Y	-	-	15	-	Y
1B	6X40	0	2-4-2	-	1	Y	Y	-	-	-	-	Y
2A	6X6	70	EXIST	-	2	Y	Y	-	-	-	-	Y
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	3	-	Y
4B	6X40	0	2-4-2	-	4	Y	Y	-	-	-	-	Y
5A	6X40	0	2-4-2	-	5	Y	Y	-	-	15	-	Y
5B	6X40	0	2-4-2	-	2	Y	Y	-	-	-	-	Y
5C	6X6	+5	EXIST	-	5	Y	Y	-	-	20	-	Y
6A	6X6	70	EXIST	-	6	Y	Y	-	-	-	-	Y
8A	6X40	0	2-4-2	-	8	Y	Y	-	-	-	-	Y
8B	6X40	0	2-4-2	-	8	Y	Y	-	-	-	-	Y

LEGEND



OASIS 2070 TIMING CHART

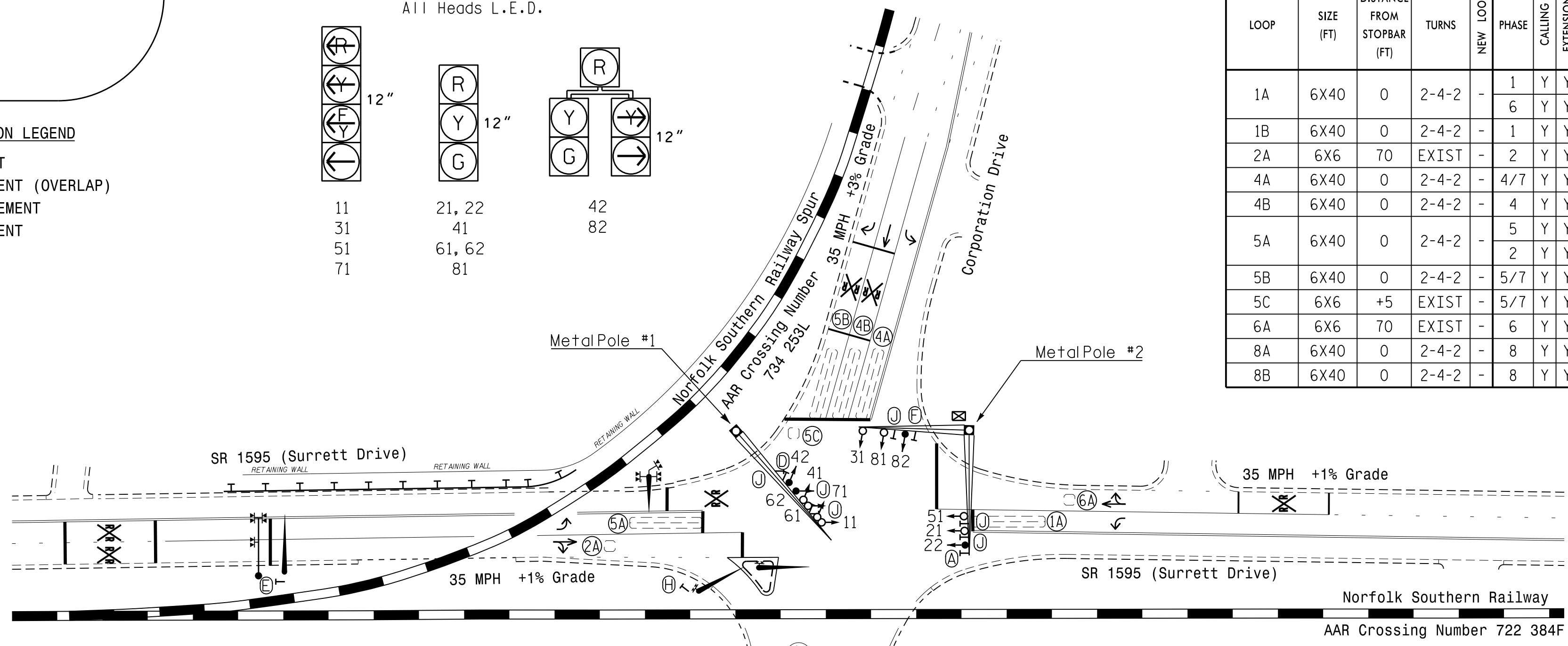
FEATURE	PHASE							
	1	2	4	5	6	7	8	
Min Green 1*	7	10	7	7	10	7	7	
Extension 1*	2.0	3.0	2.0	2.0	3.0	2.0	2.0	
Max Green 1*	20	45	20	20	45	15	20	
Yellow Clearance	3.0	3.8	3.7	3.0	3.8	3.0	3.7	
Red Clearance	3.2	2.4	3.1	3.1	2.4	2.6	3.1	
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Walk 1*	-	-	-	-	-	-	-	
Don't Walk 1	-	-	-	-	-	-	-	
Seconds Per Actuation*	-	-	-	-	-	-	-	
Max Variable Initial*	-	-	-	-	-	-	-	
Time Before Reduction*	-	-	-	-	-	-	-	
Time To Reduce*	-	-	-	-	-	-	-	
Minimum Gap	-	-	-	-	-	-	-	
Recall Mode**	-	SOFT RECALL	-	-	SOFT RECALL	-	-	
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-	-	
Dual Entry	-	-	ON	-	-	-	ON	
Simultaneous Gap	ON	ON	ON	ON	ON	ON	ON	

* 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.
 ** May be changed to Min Recall by Time of Day at discretion of City Traffic Engineer.

OASIS 2070 RR PREEMPT

FUNCTION	PRE 3	PRE 2	PRE 1
Interval 1 - Track Clearance Green	32	32	10
Interval 1 - Track Clearance Yellow	3.8	3.8	3.7
Interval 1 - Track Clearance Red	2.4	2.4	3.1
Interval 2 - Dwell Green	255	255	255
Interval 2 - Dwell Yellow	0.0*	0.0*	0.0*
Interval 2 - Dwell Red	0.0*	0.0*	0.0*
Interval 5 - Exit Green	1	1	1
Interval 5 - Yellow	0.0	0.0	0.0
Interval 5 - Red	0.0	0.0	0.0
Exit Phase(s)	2+6	2+6	4+8
Priority	HIGH	MED	MED
Delay Time	0	0	0
Min Green Before Pre	1	1	1
Ped Clear Before Pre	0	0	0
Yellow Clear Before Pre	0.0*	0.0*	0.0*
Red Clear Before Pre	0.0*	0.0*	0.0*
Dwell Min Time	7	7	10
Enable Backup Protection	N	N	N
Ped Clear Through Yellow	N	N	N
Omit Overlaps	A, E	B, E	A

* Time defaults to time used for phase during normal operation



This signal was designed for simultaneous preemption.

Signal Upgrade

SR 1595 (Surrett Drive)
at
SR 1592 (Eden Terrace)
and Corporation Drive

Division 8 Randolph County Archdale

PREPARED BY: R.N. Zinser REVIEWED BY:

DATE: JULY 2014

SEAL

026486

ROBERT J. ZIEMBA

ENGINEER

SCALE: 1"=50'

REVISIONS: _____ INIT. DATE

SIG. INVENTORY NO. 08-0707

06-MAY-2016 09:19
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