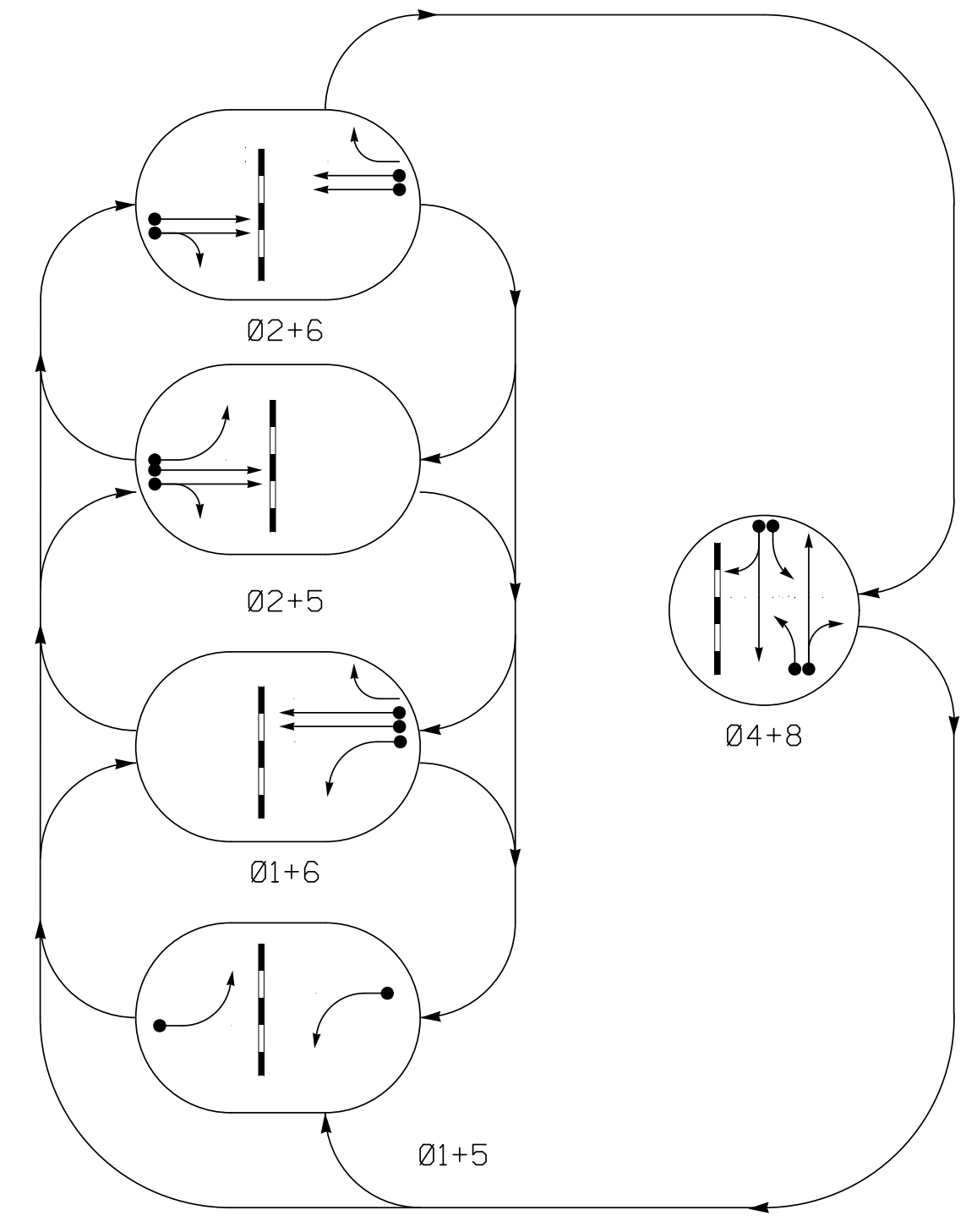
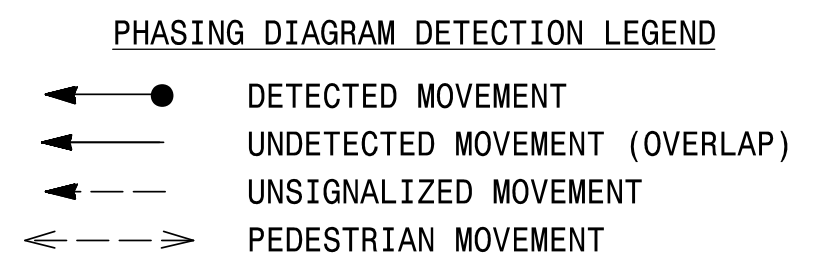
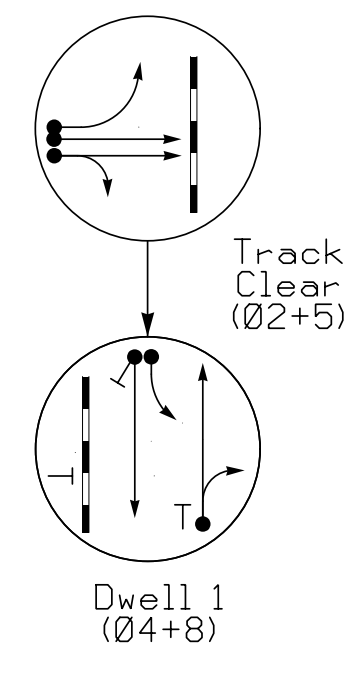


**PHASING DIAGRAM**



**RAIL PREEMPT PHASES (High Priority)**

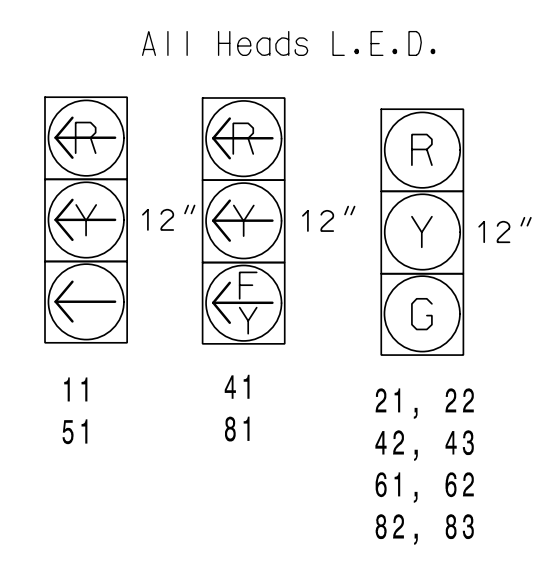


**TABLE OF OPERATION**

SIGNAL FACE	PHASE							
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 4+8	RR CLEAR	RR DWELL	RR FLASH
11	←	←	←	←	←	←	←	←
21, 22	R	R	G	G	R	R	R	Y
41	←	←	←	←	←	←	←	←
42, 43	R	R	R	R	G	R	G	R
51	←	←	←	←	←	←	←	←
61, 62	R	G	R	G	R	R	R	R
81	←	←	←	←	←	←	←	←
82, 83	R	R	R	R	G	R	G	R
SIGN 'A'	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON *

\* See Note #5

**SIGNAL FACE I.D.**



**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		
1A	6X40	+5	2-4-2	Y	1	Y	Y	-	3	-
2A	6X6	70	6	Y	2	Y	Y	-	-	-
2B	6X6	70	6	Y	2	Y	Y	-	-	-
4A	6X40	+5	2-4-2	Y	4	Y	Y	-	3	-
4B	6X40	+5	2-4-2	Y	4	Y	Y	-	-	-
5A	6X40	+5	2-4-2	Y	5	Y	Y	-	3	-
6A	6X6	70	6	Y	6	Y	Y	-	-	-
6B	6X6	70	6	Y	6	Y	Y	-	-	-
8A	6X40	+5	2-4-2	Y	8	Y	Y	-	3	-
8B	6X40	+5	2-4-2	Y	8	Y	Y	-	-	-

**5 PHASE W/ RR PREEMPTION FULLY ACTUATED (GOLDSBORO SIGNAL SYSTEM)**

**NOTES**

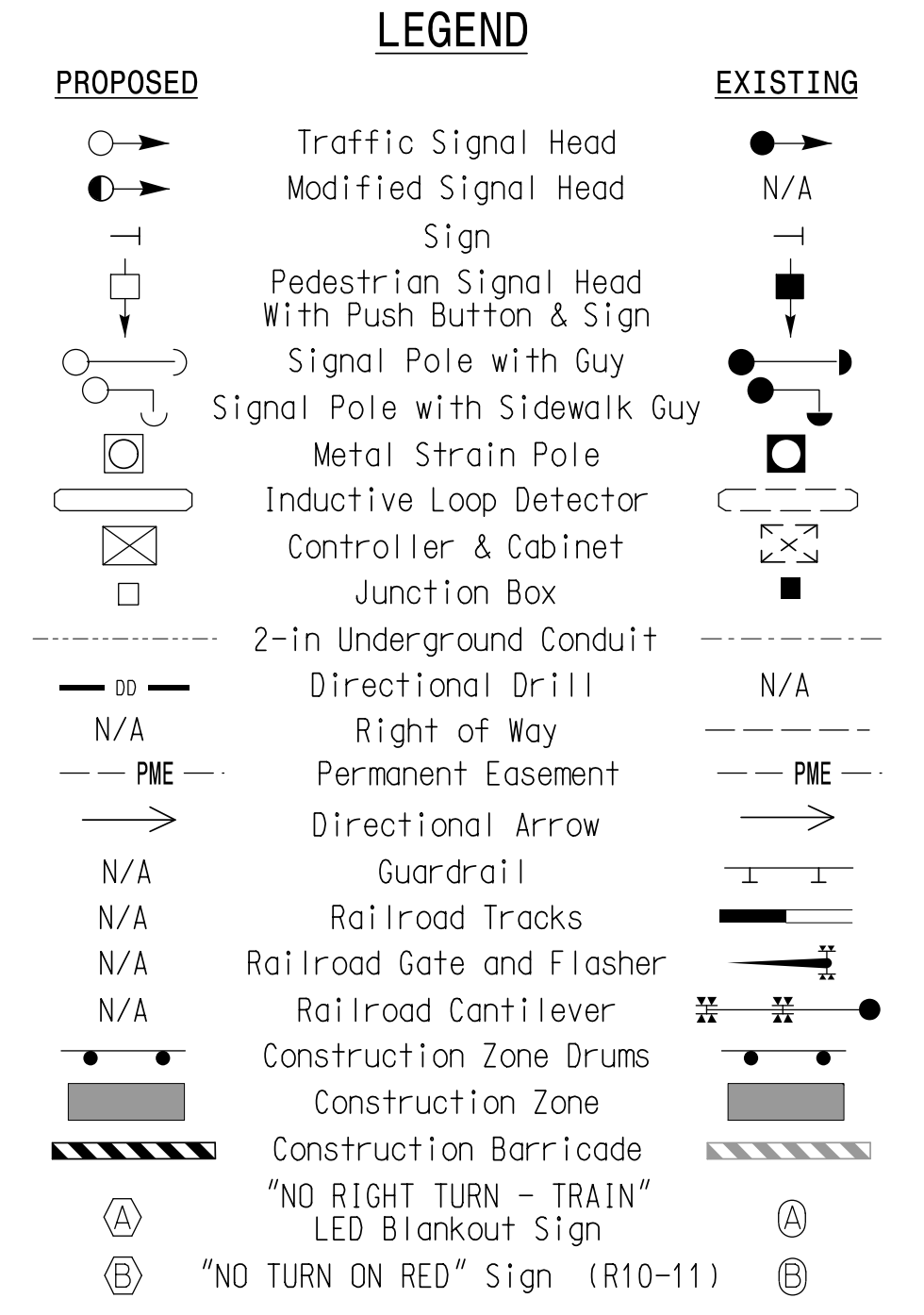
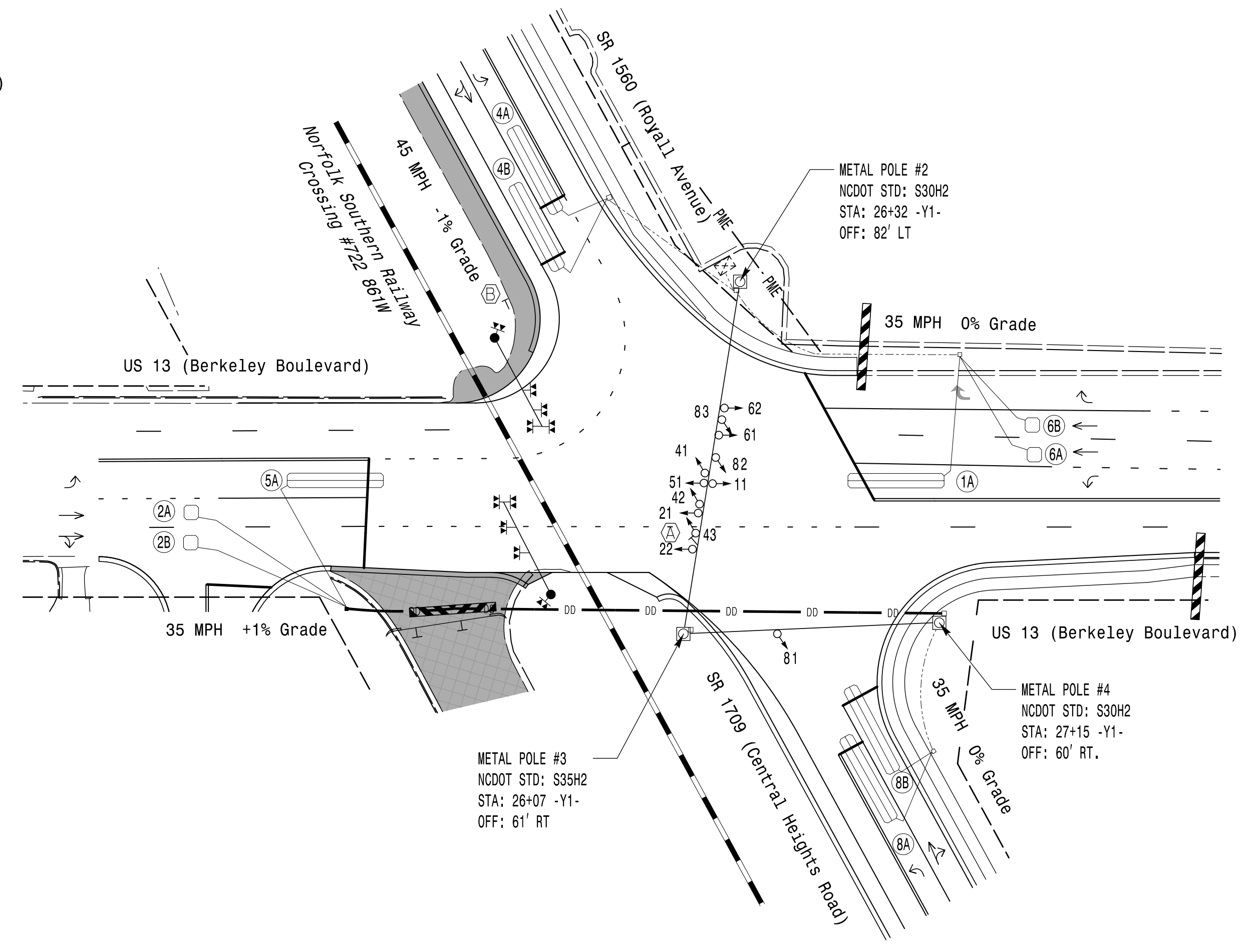
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. This location contains railroad preemption phasing. Do not program signal for late night flashing operation.
3. Phase 1 and/or phase 5 may be lagged.
4. Set all detector units to presence mode.
5. Ensure flashing operation does not alter operation of blackout signs.
6. Program parent phase for Overlap "P" for all phases used in normal operation.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
8. Controller Asset #0556.

**2070 RAIL PREEMPTION**

Interval 1 - Track Clearance Green	17
Interval 1 - Track Clearance Yellow	3.8
Interval 1 - Track Clearance Red	4.2
Interval 2 - Dwell Green	255
Interval 2 - Dwell Yellow	0.0*
Interval 2 - Dwell Red	0.0*
Interval 5 - Exit Green	1
Interval 5 - Yellow	0.0
Interval 5 - Red	0.0
Exist Phase(S)	2+6
Priority	High
Delay Time	0
Min Green Before Pre	1
Ped Clear Before Pre	0.0
Yellow Clear Before Pre	4.6
Red Clear Before Pre	4.2
Dwell Min Time	7
Ped Clear Through Yellow	N
Omit Overlaps	B,P

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

THIS SIGNAL IS DESIGNED FOR SIMULTANEOUS PREEMPTION



**OASIS 2070 TIMING CHART**

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	10	7	7	10	7
Extension 1 *	2.0	3.0	2.0	2.0	3.0	2.0
Max Green 1 *	25	60	30	25	60	30
Yellow Clearance	3.0	3.8	4.6	3.0	3.8	4.6
Red Clearance	2.3	3.3	4.1	4.2	2.7	4.1
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation *	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	-
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-
Dual Entry	-	-	ON	-	-	ON
Simultaneous Gap	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.

**Signal Upgrade - Temporary Design 2 TMP Phase 2**

Prepared For:  
  
 TRANSPORTATION MOBILITY AND SAFETY DIVISION  
 STATE OF NORTH CAROLINA  
 SIGNAL DESIGN SECTION

PLANS PREPARED IN THE OFFICE OF:  
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**US 13 (BERKELEY BOULEVARD)**  
 AT  
**SR 1560 (ROYALL AVENUE) AND**  
**SR 1709 (CENTRAL HEIGHTS ROAD)**  
 DIVISION 4 WAYNE COUNTY GOLDSBORO

PLAN DATE: DECEMBER 2018 REVIEWED BY: SL PHILLIPS  
 PREPARED BY: SP PENNINGTON REVIEWED BY:

REVISIONS: \_\_\_\_\_ INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL  
  
 DATE: 6/30/2020  
 SIGNATURE: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 SIG. INVENTORY NO. 04-055612