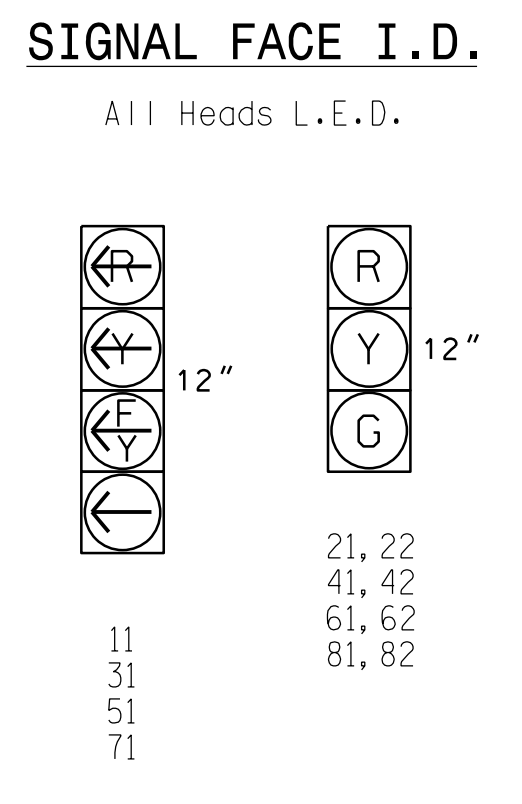


PHASING DIAGRAM DETECTION LEGEND

- ◄●► DETECTED MOVEMENT
- ◄◄◄ UNDETECTED MOVEMENT (OVERLAP)
- ◄- - - UNSIGNALIZED MOVEMENT
- ◄- - -> PEDESTRIAN MOVEMENT

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



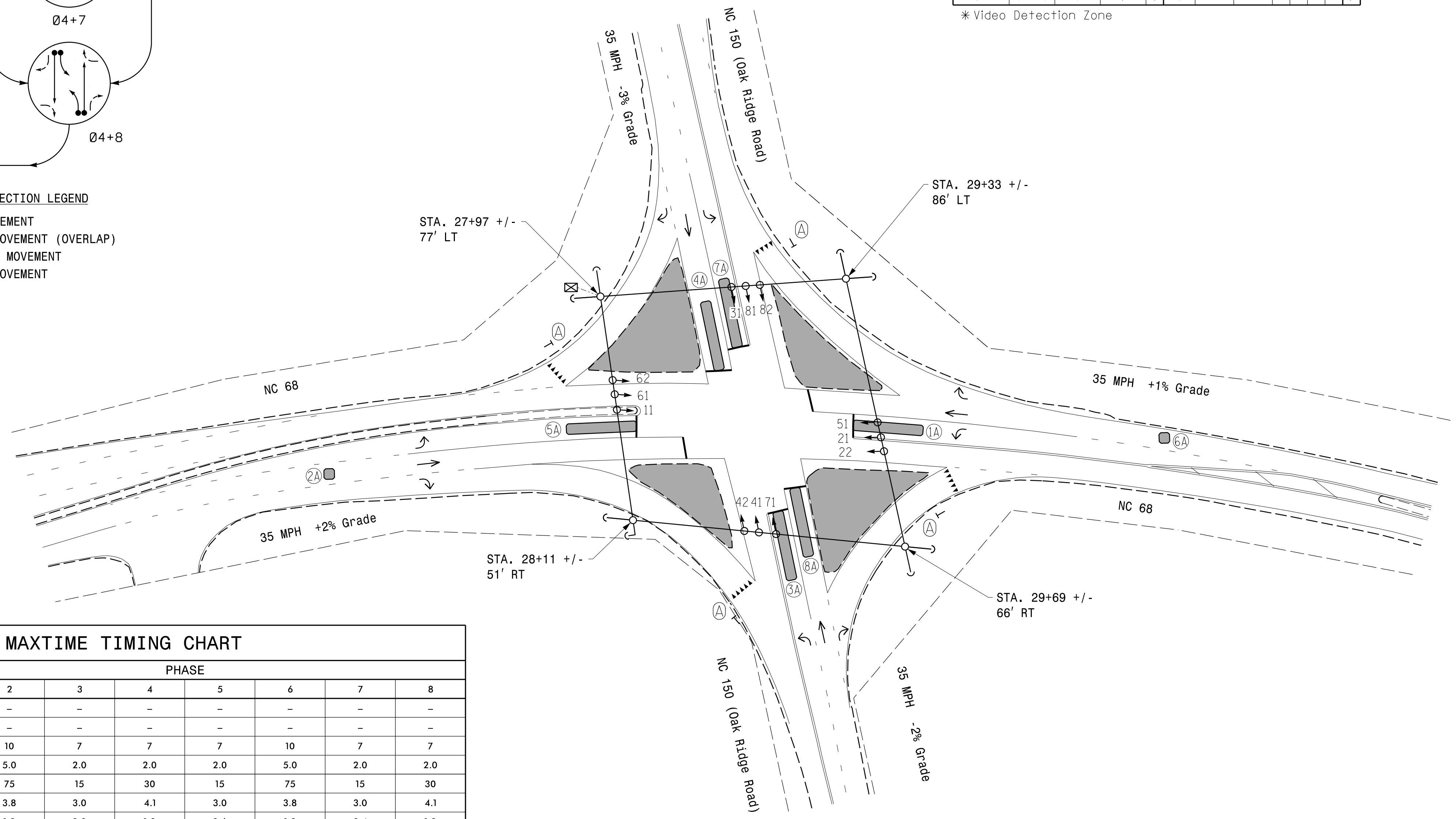
MAXTIME DETECTOR INSTALLATION CHART										
DETECTOR					PROGRAMMING					
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL
1A	6X40	0	*	*	1	15	-	X	-	X
2A	6X6	200	*	*	2	-	-	X	X	X
3A	6X40	0	*	*	3	15	-	X	-	X
4A	6X40	0	*	*	4	-	-	X	-	X
5A	6X40	0	*	*	5	15	-	X	-	X
6A	6X6	200	*	*	6	-	-	X	X	X
7A	6X40	0	*	*	7	15	-	X	-	X
8A	6X40	0	*	*	8	-	-	X	-	X

* Video Detection Zone

8 Phase Fully Actuated (Isolated)

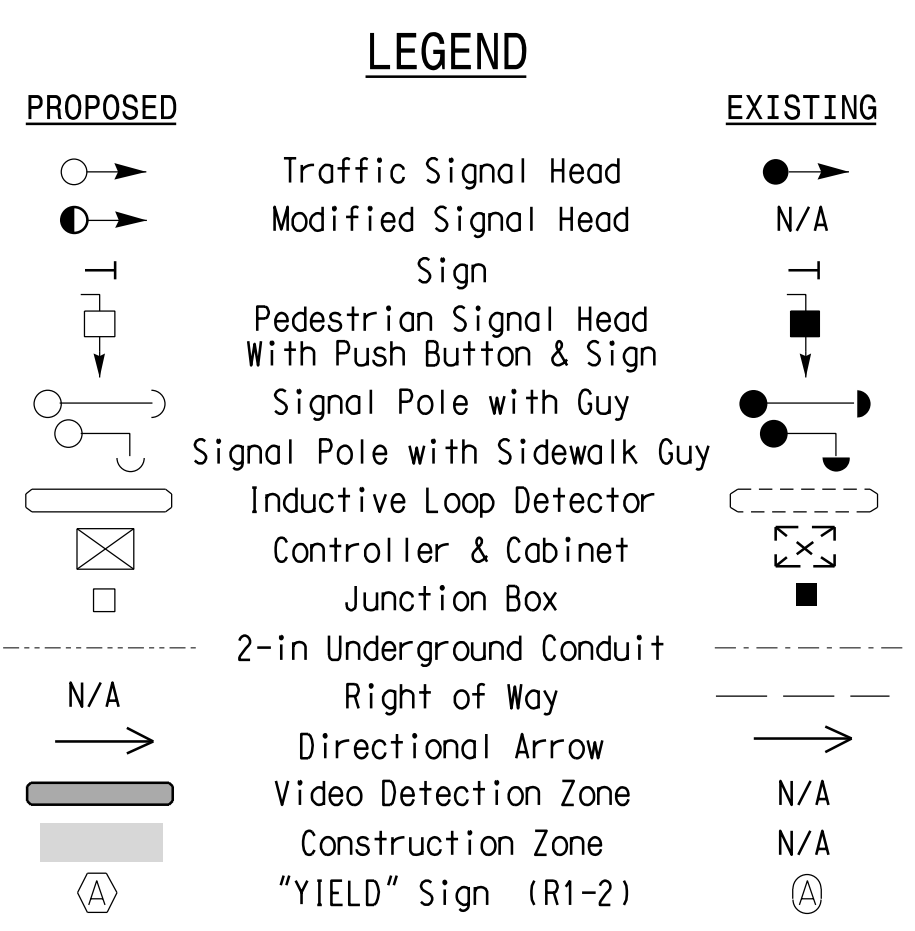
NOTES

- 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.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.



FEATURE	MAXTIME TIMING CHART							
	PHASE							
	1	2	3	4	5	6	7	8
Walk *	-	-	-	-	-	-	-	-
Ped Clear *	-	-	-	-	-	-	-	-
Min Green	7	10	7	7	7	10	7	7
Passage *	2.0	5.0	2.0	2.0	2.0	5.0	2.0	2.0
Max 1 *	15	75	15	30	15	75	15	30
Yellow Change	3.0	3.8	3.0	4.1	3.0	3.8	3.0	4.1
Red Clear	2.4	1.9	2.8	1.8	2.6	1.9	2.4	1.8
Added Initial *	-	2.5	-	-	-	2.5	-	-
Maximum Initial *	-	24	-	-	-	24	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	30	-	-	-	30	-	-
Minimum Gap	-	3.0	-	-	-	3.0	-	-
Advance Walk	-	-	-	-	-	-	-	-
Non Lock Detector	X	-	X	X	X	-	X	X
Vehicle Recall	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Dual Entry	-	-	-	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 - Temporary Design 1 (TMP Phase 1, Step 2)

Infrastructure Consulting Services, Inc.

RKA

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NC 68 at NC 150 (Oak Ridge Road)

Division 7 Guilford County Oak Ridge

PLAN DATE: April 2023 REVIEWED BY: TS Popelka

PREPARED BY: JA Wendt RKA PROJ. NO.: 18062 (040)

REVISIONS: _____ INIT. DATE

SCALE: 1" = 40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER

SEAL 051573

TIMOTHY S. POPELKA

04/05/2023

SIG. INVENTORY NO. 07-0883T1