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PROJECT REFERENCE NO.	SHEET NO.
U-5896	Sig. 5.0

PHASING DIAGRAM

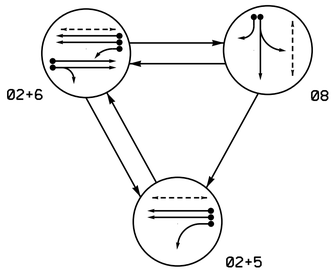


TABLE OF OPERATION

SIGNAL FACE	PHASE 02+5	PHASE 02+6	PHASE 08	FLASH
21,22	↑	↑	R	Y
51	←	F Y	R	Y
61,62	R	G	R	G
81,82	R	R	G	R
P21,P22	W	W	DW	DRK
P81,P82	DW	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.

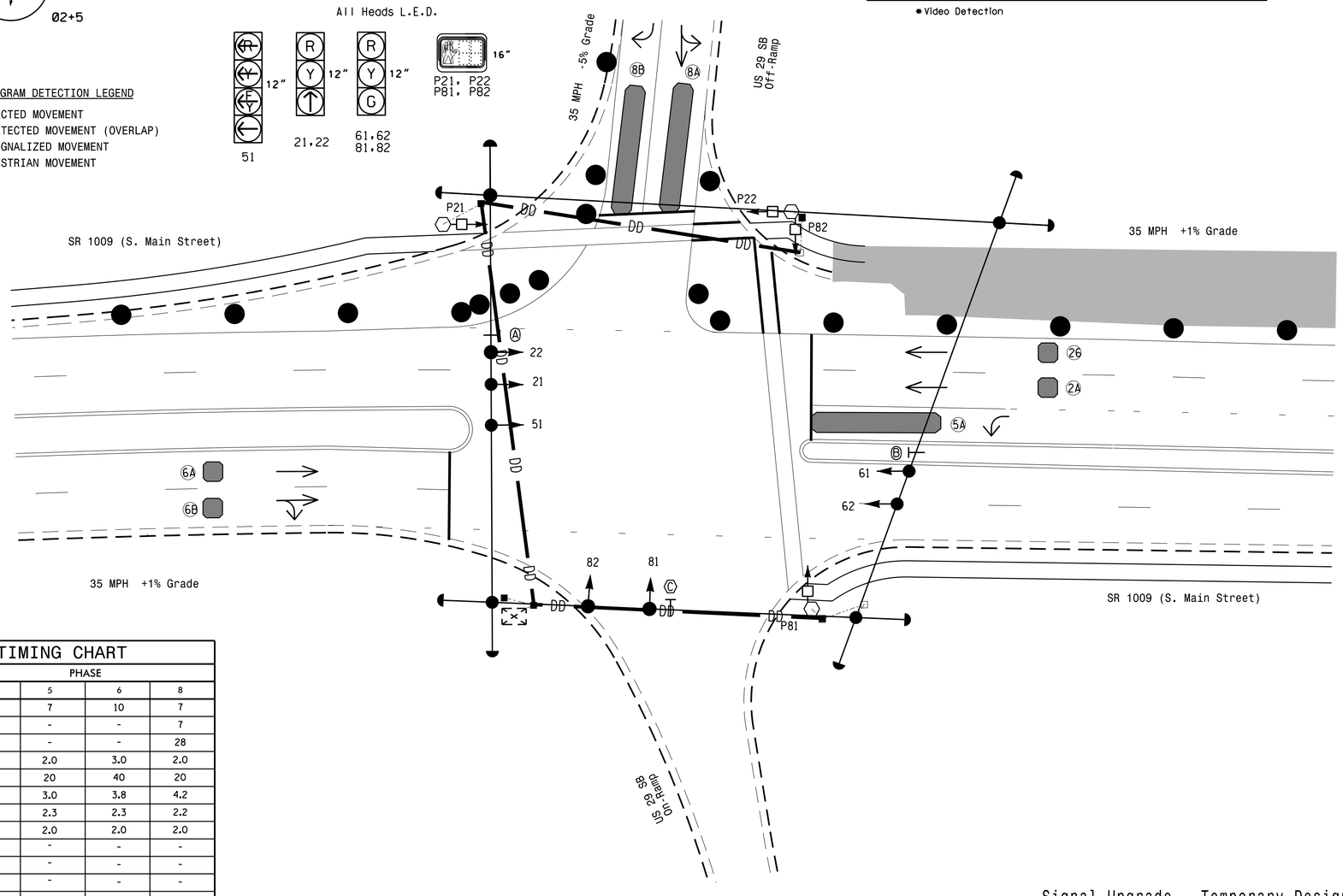
PHASING DIAGRAM DETECTION LEGEND

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

ASC/3 DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING							
ZONE	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	-	15	-	S	-	✱
					2	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	-	✱

✱ Video Detection



ASC/3 TIMING CHART

FEATURE	PHASE 2	PHASE 5	PHASE 6	PHASE 8
Min Green *	10	7	10	7
Walk *	7	-	-	7
Ped Clear	22	-	-	28
Veh. Extension *	3.0	2.0	3.0	2.0
Max 1 *	40	20	40	20
Yellow	3.8	3.0	3.8	4.2
Red Clear	2.3	2.3	2.3	2.2
Red Revert	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-
Seconds /Actuation *	-	-	-	-
Max Initial *	-	-	-	-
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.

3 Phase
Fully Actuated
(High Point Signal System)

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 51, 61 and 62.
5. Set all detector units to presence mode.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
8. This intersection uses video detection. install according to manufacturer's instructions to achieve the desired detection.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
10. All metal poles, mastarms, and pedestrian pedstals shall be black power coated and fluted design approved by City of High Point. Refer to the Project Special Provisions for details.

LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
DD	Directional Drill	N/A
N/A	Right of Way	
	Directional Arrow	
	Video Detection Zone	
	Construction Zone	
	Construction Zone Drums	
	Portable Concrete Barrier	
	Type II Signal Pedestal	
Ⓐ	"No Right Turn" Sign (R3-1)	Ⓐ
Ⓑ	"No Left Turn" Sign (R3-2)	Ⓑ
Ⓒ	"Left Turning Vehicles Yield to Pedestrians" Sign (R10-15L)	Ⓒ

Signal Upgrade - Temporary Design 4 (TMP Phase V)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MOTT MACDONALD
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Prepared for the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 20 1"=20'

SR 1009 (S. Main Street)
at
US 29 SB Ramps

Division 7 Guilford County High Point

PLAN DATE:	May 2021	REVIEWED BY:	BA Lehan
PREPARED BY:	DE Fowler	REVIEWED BY:	

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

DocuSigned by: Brendan Lehan 09 December 202
SIGNATURE DATE

SIG. INVENTORY NO. 07-1585 T4

$$$$$$SYSTIME$$$$
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$