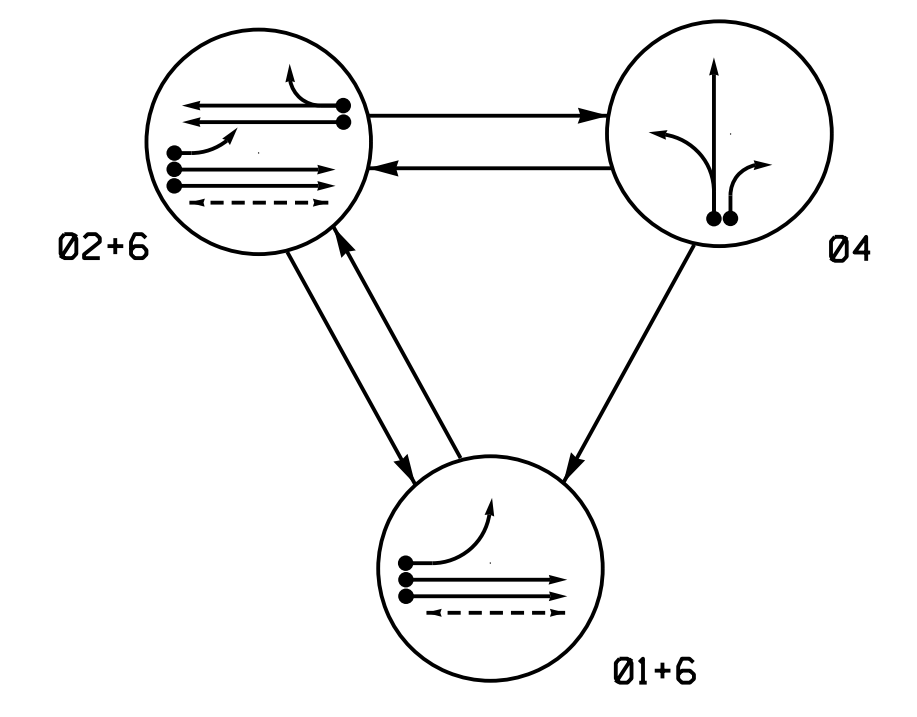


3 Phase Fully Actuated (High Point Signal System)

PHASING DIAGRAM

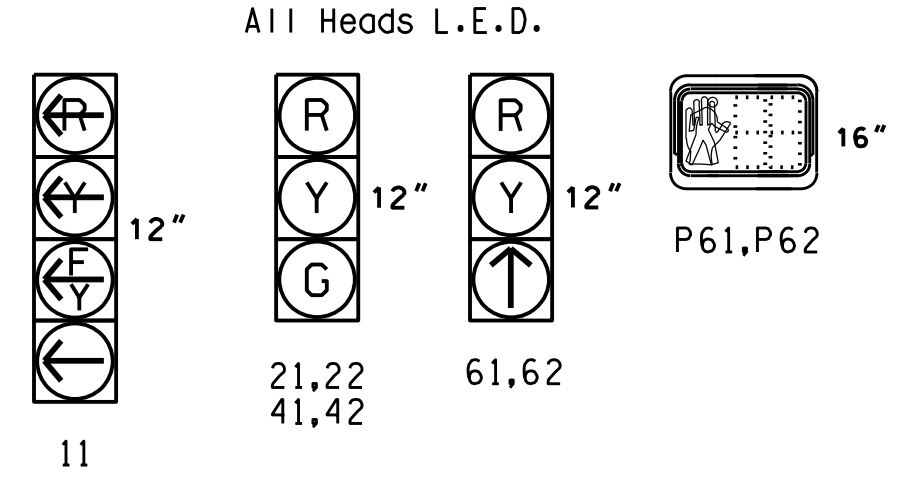


PHASING DIAGRAM DETECTION LEGEND
 ● DETECTED MOVEMENT
 ○ UNDETECTED MOVEMENT (OVERLAP)
 - - - UNSIGNALIZED MOVEMENT
 - - - PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE			
	01+6	02+6	04	FLASH
11	-	-	-	-
21,22	R	G	R	Y
41,42	R	R	G	R
61,62	↑	↑	R	Y
P61,P62	W	W	DWDRK	

SIGNAL FACE I.D.



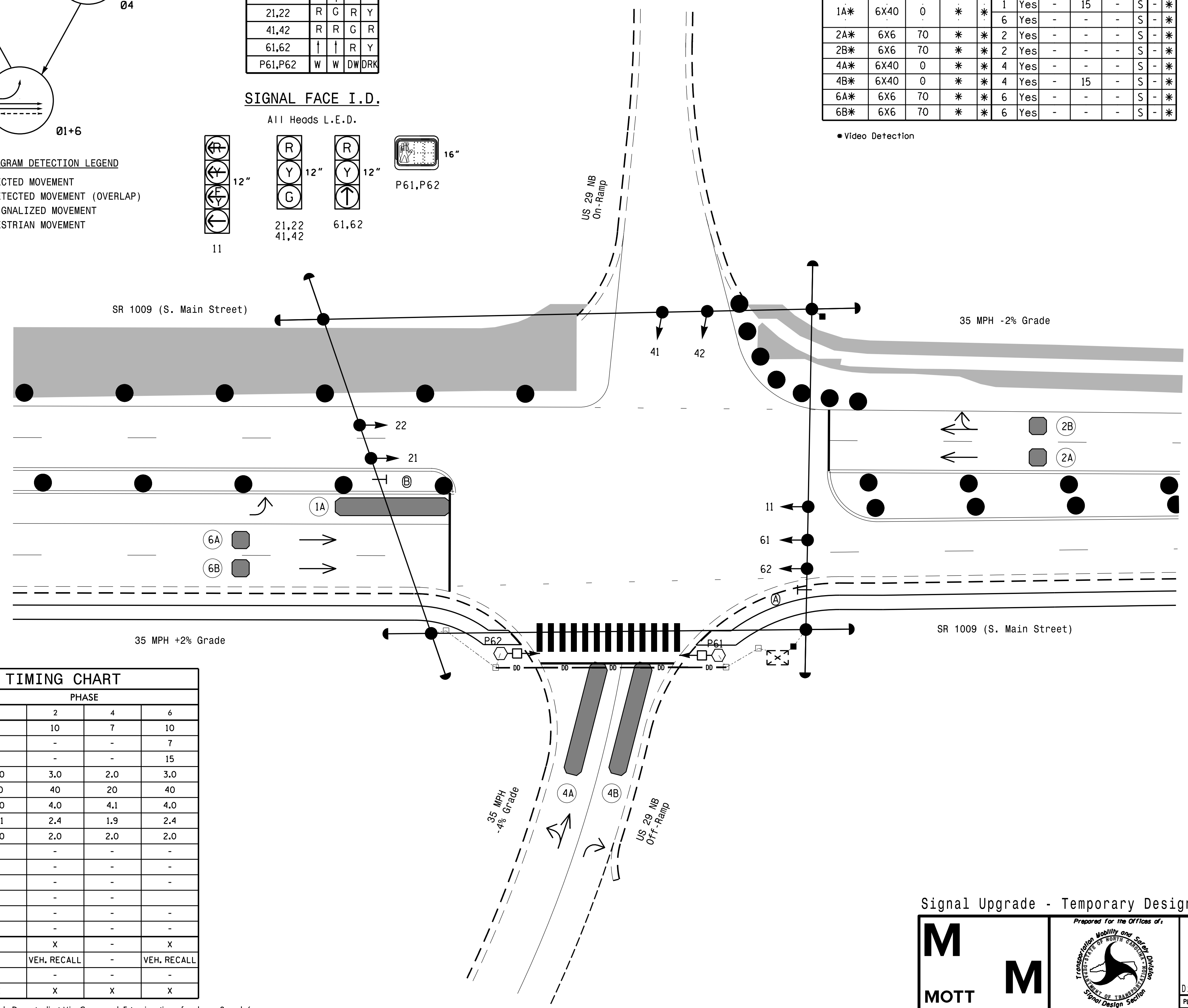
ASC/3 DETECTOR INSTALLATION CHART

ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A*	6X40	0	*	*	1	Yes	-	15	-	S	-	*
2A*	6X6	70	*	*	6	Yes	-	-	-	S	-	*
2B*	6X6	70	*	*	2	Yes	-	-	-	S	-	*
4A*	6X40	0	*	*	4	Yes	-	-	-	S	-	*
4B*	6X40	0	*	*	4	Yes	-	15	-	S	-	*
6A*	6X6	70	*	*	6	Yes	-	-	-	S	-	*
6B*	6X6	70	*	*	6	Yes	-	-	-	S	-	*

● Video Detection

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 may be lagged.
- Reposition existing signal heads numbered 11, 21, 22, 61 and 62.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- This intersection uses video detection, install according to manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- All metal poles, mastarms, and pedestrian pedestals shall be black power coated and fluted design approved by City of High Point. Refer to the Project Special Provisions for details.



ASC/3 TIMING CHART

FEATURE	PHASE			
	1	2	4	6
Min Green *	7	10	7	10
Walk *	-	-	-	7
Ped Clear	-	-	-	15
Veh. Extension *	2.0	3.0	2.0	3.0
Max 1 *	20	40	20	40
Yellow	3.0	4.0	4.1	4.0
Red Clear	3.1	2.4	1.9	2.4
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.

LEGEND

PROPOSED	EXISTING
○ Traffic Signal Head	● Traffic Signal Head
○ Modified Signal Head	N/A
⊥ Sign	⊥ Sign
⊥ Pedestrian Signal Head With Push Button & Sign	⊥ Pedestrian Signal Head With Push Button & Sign
⊥ Signal Pole with Guy	⊥ Signal Pole with Guy
⊥ Signal Pole with Sidewalk Guy	⊥ Signal Pole with Sidewalk Guy
⊥ Inductive Loop Detector	⊥ Inductive Loop Detector
⊥ Controller & Cabinet	⊥ Controller & Cabinet
⊥ Junction Box	⊥ Junction Box
⊥ 2-in Underground Conduit	⊥ 2-in Underground Conduit
⊥ Directional Drill	N/A
N/A Right of Way	N/A Right of Way
→ Directional Arrow	→ Directional Arrow
▬ Video Detection Zone	▬ Video Detection Zone
▬ Construction Zone	▬ Construction Zone
● Construction Zone Drums	● Construction Zone Drums
○ Type II Signal Pedestal	○ Type II Signal Pedestal
⊙ "No Right Turn" Sign (R3-1)	⊙ "No Right Turn" Sign (R3-1)
⊙ "No Left Turn" Sign (R3-2)	⊙ "No Left Turn" Sign (R3-2)

Signal Upgrade - Temporary Design 3 (TMP Phase V)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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Prepared For the Offices of:
 TRANSPORTATION MOBILITY AND SAFETY DIVISION
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 STATE OF NORTH CAROLINA
 Signal Design Section
 750 N. Greenfield Pkwy, Corner, NC 27529

SR 1009 (S. Main Street)
 at
 US 29 NB Ramps
 Division 7 Guilford County High Point
 PLAN DATE: May 2021 REVIEWED BY: RW Thompson
 PREPARED BY: DE Fowler REVIEWED BY:
 REVISIONS INIT. DATE

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 045256
 BRENDAN A. LEHN
 BRENDAN A. LEHN
 SIGNATURE DATE
 SIG. INVENTORY NO. 07-1586 T3