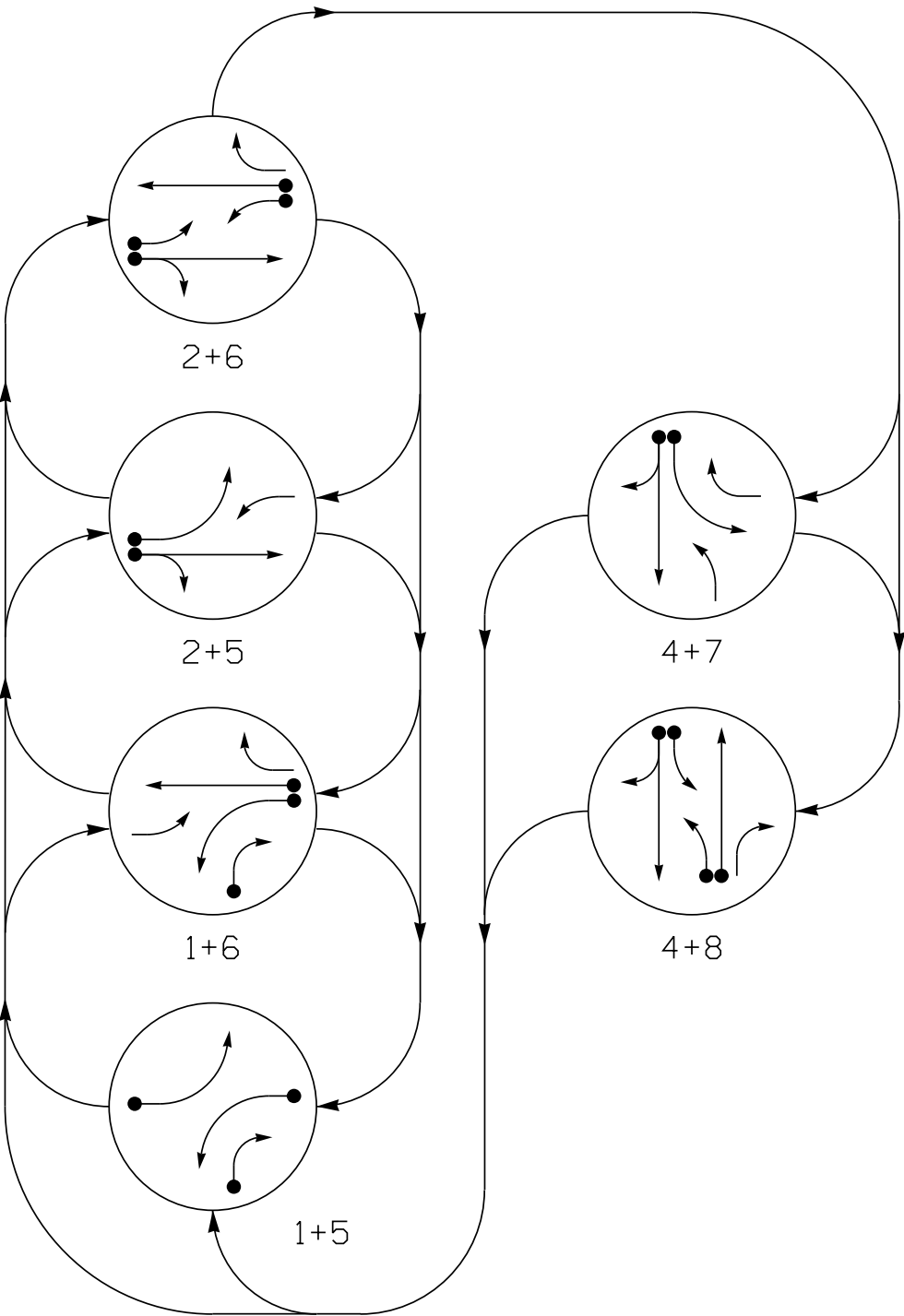


6 Phase
Fully Actuated
(NC 135 CLS)
Signal System #: D07-09_Mayodan

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- 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 7 may be lagged.
- Reposition existing signalheads numbered 11, 21, 22, 51, 61, and 62.
- Set all detector units to presence mode.
- This intersection uses video detection. Install detectors according to the manufacturer's instruction to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signalsystem timing values supersede these values.

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

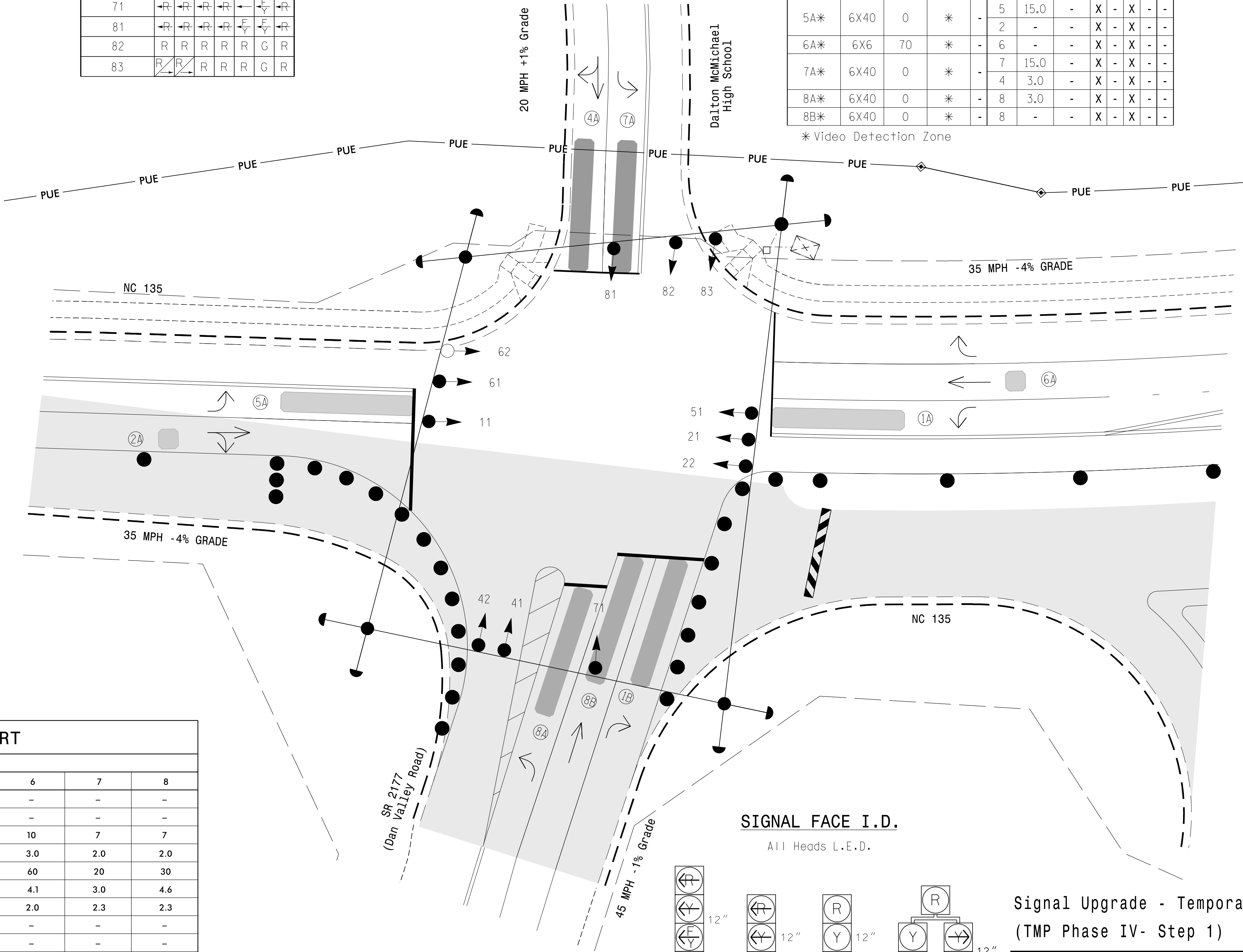
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT

SIGNAL FACE	PHASE						
	1 + 5	1 + 6	2 + 5	2 + 6	4 + 7	4 + 8	FLASH
11	←	←	←	←	←	←	←
21, 22	R	R	G	G	R	R	R
41, 42	R	R	R	R	G	G	R
51	←	←	←	←	←	←	←
61	R	G	R	G	R	R	R
62	R	G	R	G	R	R	R
71	←	←	←	←	←	←	←
81	←	←	←	←	←	←	←
82	R	R	R	R	R	G	R
83	R	R	R	R	R	G	R

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	DELAY DURING GREEN
1A*	6X40	0	*	-	1	15.0	-	X	-	X	-
1B*	6X40	0	*	-	1	15.0	-	X	-	X	-
2A*	6X6	70	*	-	2	-	-	X	-	X	-
4A*	6X40	0	*	-	4	10.0	-	X	-	X	-
5A*	6X40	0	*	-	5	15.0	-	X	-	X	-
6A*	6X6	70	*	-	6	-	-	X	-	X	-
7A*	6X40	0	*	-	7	15.0	-	X	-	X	-
8A*	6X40	0	*	-	8	3.0	-	X	-	X	-
8B*	6X40	0	*	-	8	-	-	X	-	X	-

* Video Detection Zone



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 | — |
| N/A | Right of Way |
| N/A | Permanent Utility Easement |
| Directional Arrow | → |
| Non-Intrusive Detection Zone | — |
| Construction Zone | — |
| Construction Zone Drums | ● |
| N/A | Curb Ramp |

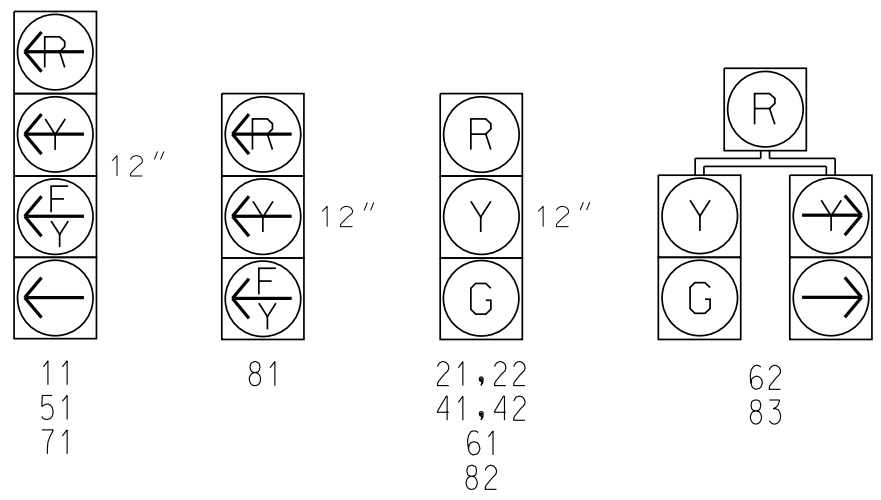
MAXTIME TIMING CHART

FEATURE	PHASE							
	1	2	4	5	6	7	8	
Walk *	-	-	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-	-	-
Min Green *	7	10	7	7	10	7	7	7
Passage *	2.0	3.0	2.0	2.0	3.0	2.0	2.0	2.0
Max 1 *	20	60	30	20	60	20	30	30
Yellow Change	3.0	4.1	4.6	3.0	4.1	3.0	4.6	4.6
Red Clear	2.4	2.0	2.3	2.6	2.0	2.3	2.3	2.3
Added Initial *	-	-	-	-	-	-	-	-
Maximum Initial *	-	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-	-
Advance Walk	-	-	-	-	-	-	-	-
Non Lock Detector	X	-	X	X	-	X	X	X
Vehicle Recall	-	MIN RECALL	-	-	MIN RECALL	-	-	-
Dual Entry	-	-	X	-	-	-	X	X

* These values may be field adjusted. Do not adjust Min Green and Passage 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 FACE I.D.

All Heads L.E.D.



Signal Upgrade - Temporary Design 3
(TMP Phase IV- Step 1)

Prepared for the Offices of: Transportation Mobility and Safety Division UNIVERSITY OF NORTH CAROLINA SIGNAL DESIGN SECTION 750 N. Greenfield Pkwy, Garner, NC 27529	NC135 at SR 2177 (Dan Valley Road) and McMichael High School Division 7 Rockingham County Mayodan PLAN DATE: August 2025 PREPARED BY: Jamal Khdeir REVIEWED BY: Golam Moynuddin	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 034454 GOLAM M. MOYNUDDIN Signed by: Golam Moynuddin 8/1/2025 DATE SIGNATURE SIC. INVENTORY NO. 07-1395 13
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