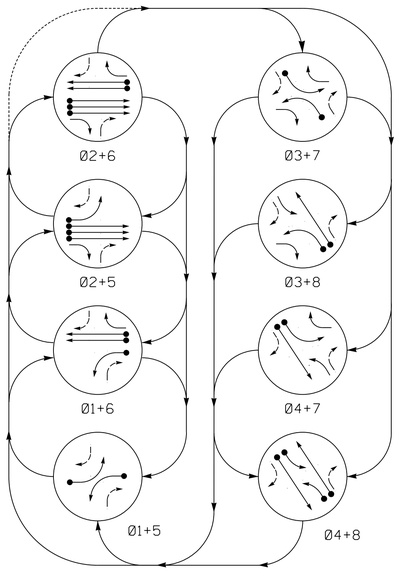
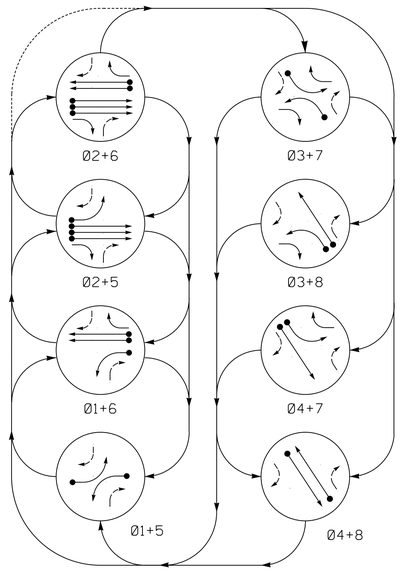
PROJECT REFERENCE NO.	SHEET NO.
U-4015A	Sig. 3.0

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8	FLASH
11	↚	↚	R̸	R̸	R̸	R̸	R̸	R̸	R̸
21,22,23	R	R	G	G	R	R	R	R	R
24	R	R	G	G	R↘	R↘	R	R	R
31	R̸	R̸	R̸	R̸	↚	↚	F̸Y	F̸Y	R̸
41,42,43	R	R	R	R	R	R	G	G	R
51	↚	R̸	↚	R̸	R̸	R̸	R̸	R̸	R̸
61,62	R	G	R	G	R	R	R	R	R
63	R	G	R	G	R↘	R	R↘	R	R
71	R̸	R̸	R̸	R̸	↚	F̸Y	↚	F̸Y	R̸
81,82,83	R	R	R	R	R	G	R	G	R

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8	FLASH
11	↚	↚	R̸	R̸	R̸	R̸	R̸	R̸	R̸
21,22,23	R	R	G	G	R	R	R	R	R
24	R	R	G	G	R↘	R↘	R	R	R
31	R̸	R̸	R̸	R̸	↚	↚	R̸	R̸	R̸
41,42,43	R	R	R	R	R	R	G	G	R
51	↚	R̸	↚	R̸	R̸	R̸	R̸	R̸	R̸
61,62	R	G	R	G	R	R	R	R	R
63	R	G	R	G	R↘	R	R↘	R	R
71	R̸	R̸	R̸	R̸	↚	R̸	↚	R̸	R̸
81,82,83	R	R	R	R	R	G	R	G	R

8 Phase
Fully Actuated
(High Point Signal System)

NOTES

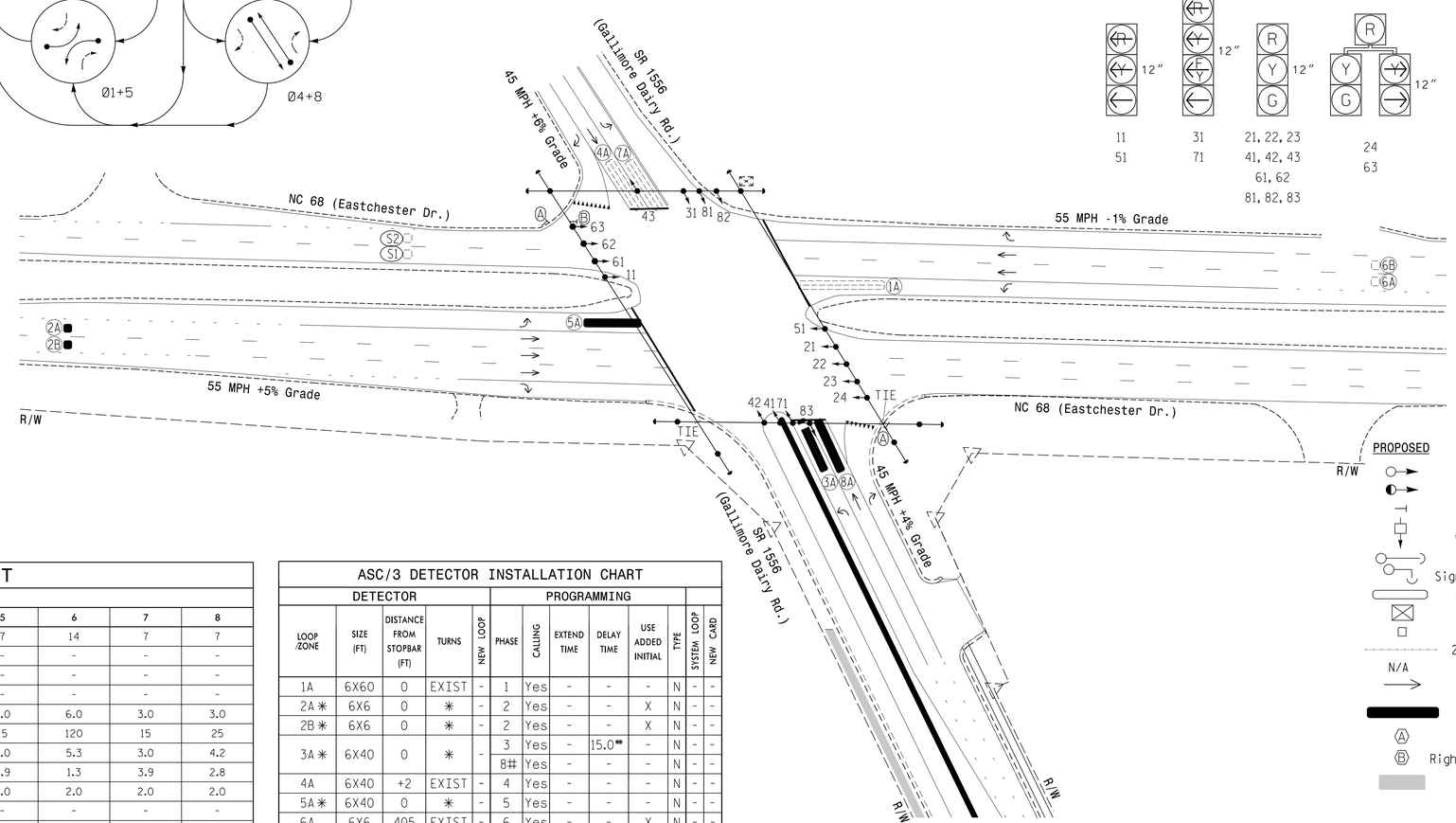
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specification for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. Phase 3 and/or phase 7 may be lagged.
5. Set all detector units to presence mode.
6. The City Traffic Engineer will determine the hours of use for each phasing plan.
7. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

SIGNAL FACE I.D.

All Heads L.E.D.

PHASING DIAGRAM DETECTION LEGEND

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



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	
	Directional Arrow	
	Non-Intrusive Detection Zone	
Ⓐ	"YIELD" Sign (R1-2)	Ⓐ
Ⓑ	Right Arrow "ONLY" Sign (R3-5R)	Ⓑ
	Construction Zone	

ASC/3 TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6	7	8
Min Green *	7	14	7	7	7	14	7	7
Delayed Green *	-	-	-	-	-	-	-	-
Walk *	-	-	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-	-	-
Veh. Extension *	1.0	6.0	3.0	3.0	2.0	6.0	3.0	3.0
Max 1 *	15	120	15	25	15	120	15	25
Yellow	3.0	5.3	3.0	4.2	3.0	5.3	3.0	4.2
Red Clear	3.3	1.3	4.0	2.8	2.9	1.3	3.9	2.8
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-	-	-	-	-
Seconds /Actuation *	-	1.5	-	-	-	1.5	-	-
Max Initial *	-	46	-	-	-	45	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	30	-	-	-	30	-	-
Minimum Gap	-	3.4	-	-	-	3.4	-	-
Locking Detector	-	X	-	-	-	X	-	-
Recall Position	-	SOFT RECALL	-	-	-	SOFT RECALL	-	-
Dual Entry	-	-	-	X	-	-	-	X
Simultaneous Gap	X	X	X	X	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.

ASC/3 DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING						
LOOP /ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X60	0	EXIST	-	1	Yes	-	-	-	N	-	-
2A ✳	6X6	0	✳	-	2	Yes	-	-	X	N	-	-
2B ✳	6X6	0	✳	-	2	Yes	-	-	X	N	-	-
3A ✳	6X40	0	✳	-	3	Yes	-	15.0**	-	N	-	-
					8#	Yes	-	-	-	N	-	-
4A	6X40	+2	EXIST	-	4	Yes	-	-	-	N	-	-
5A ✳	6X40	0	✳	-	5	Yes	-	-	-	N	-	-
6A	6X6	405	EXIST	-	6	Yes	-	-	X	N	-	-
6B	6X6	405	EXIST	-	6	Yes	-	-	X	N	-	-
7A	6X40	0	EXIST	-	7	Yes	-	15.0***	-	N	-	-
					4#	Yes	-	3.0	-	N	-	-
8A ✳	6X40	0	✳	-	8	Yes	-	-	-	N	-	-
S1	6X6	+265	EXIST	-	0	No	-	-	-	N	X	-
S2	6X6	+265	EXIST	-	0	No	-	-	-	N	X	-

✳ VIDEO DETECTION
** DISABLE DELAY DURING ALTERNATE PHASING OPERATION.
*** REDUCE DELAY TO 3 SECONDS DURING ALTERNATE PHASING OPERATION.
# DISABLE PHASE CALL FOR LOOP(S) DURING ALTERNATE PHASING OPERATION.

Signal Upgrade-Temporary Design 2 (TMP Phase III)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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Prepared for the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 50 1"=50'

NC 68 (Eastchester Dr.) at SR 1556 (Gallimore Dairy Rd.)

Division 7 Guilford County High Point

PLAN DATE:	August 2024	REVIEWED BY:	WP Erickson-Jones
PREPARED BY:	A.C. Norman	REVIEWED BY:	

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 056142 ENGINEER W. PORTER JONES

DocuSigned by: Porter Jones 8/22/2024
ENGINEER'S SIGNATURE DATE

SIG. INVENTORY NO. 07-143872

8/22/2024
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wpjones