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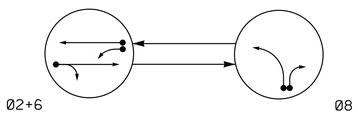
PROJECT REFERENCE NO.	SHEET NO.
R-3825B	Sig-15.3

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

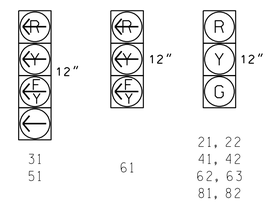
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

	SIGNAL FACE	PHASE Ø2+6	PHASE Ø8	PHASE FLASH
	21, 22	G	R	Y
BAGGED	~~31~~	~~R~~	~~Y~~	~~R~~
BAGGED	~~41, 42~~	R	G	R
BAGGED	~~51~~	~~Y~~	~~R~~	~~Y~~
	61	~~Y~~	~~R~~	~~Y~~
	62, 63	G	R	Y
	81, 82	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

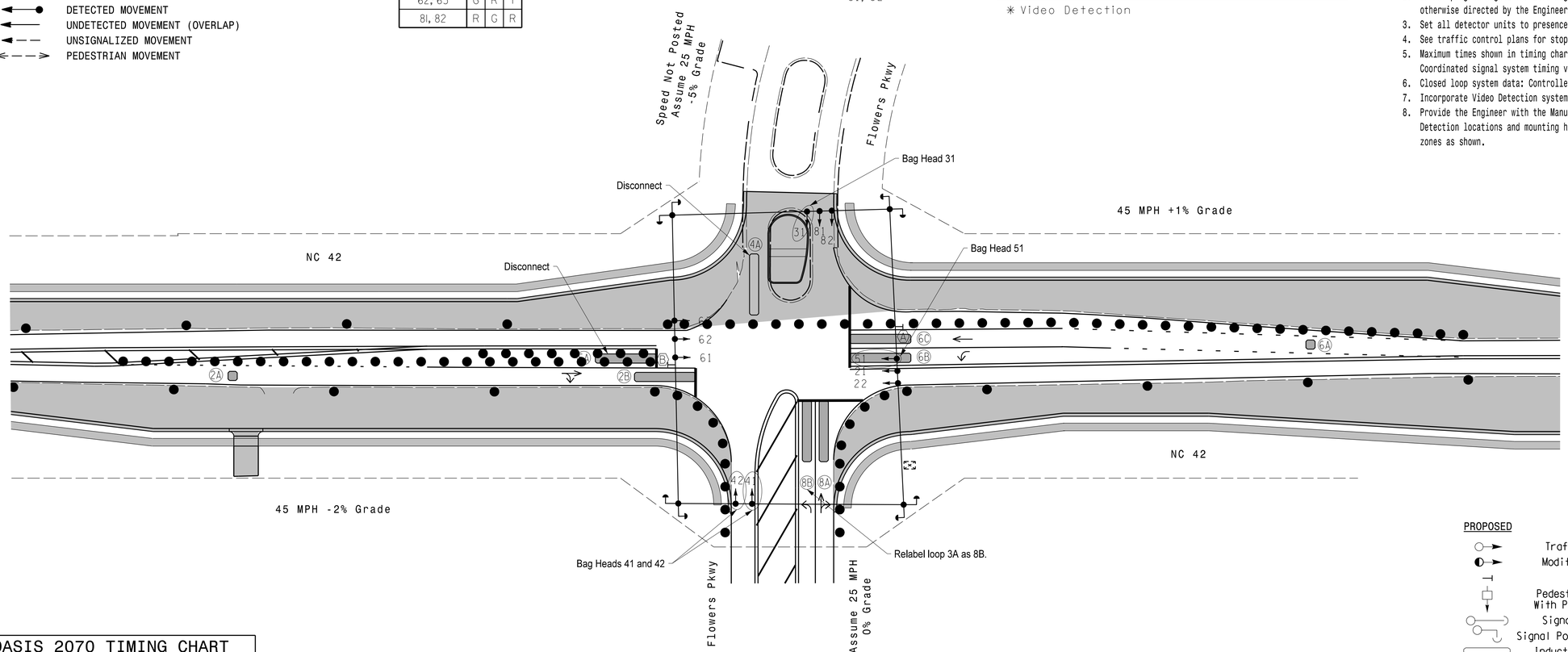
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP/ ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6X6	300	*	*	2	Y	Y	-	-	-	-	-
2B	6X40	0	*	*	2	Y	Y	Y	2.0	5	-	-
6A	6X6	300	*	*	6	Y	Y	-	-	-	-	-
6B	6X40	0	*	*	6	Y	Y	Y	-	3	-	-
6C	6X40	0	*	*	6	Y	Y	Y	2.0	5	-	-
8A	6X40	0	*	*	8	Y	Y	-	-	10	-	-
8B	6X40	0	*	*	8	Y	Y	-	-	-	-	-

* Video Detection

4 Phase
Fully Actuated
NC 42 (East of Clayton) CLS
Signal System #: 10411

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018, "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. Set all detector units to presence mode.
4. See traffic control plans for stop bar locations.
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
6. Closed loop system data: Controller Asset #1432.
7. Incorporate Video Detection system for vehicle detection.
8. Provide the Engineer with the Manufacturer's approved Video Detection locations and mounting heights to obtain detection zones as shown.



OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 6	PHASE 8
Min Green 1 *	12	12	7
Extension 1 *	6.0	6.0	2.0
Max Green 1 *	90	90	45
Yellow Clearance	4.7	4.7	3.0
Red Clearance	1.5	1.5	2.4
Red Revert	2.0	2.0	2.0
Walk 1 *	-	-	-
Don't Walk 1	-	-	-
Seconds Per Actuation *	-	-	-
Max Variable Initial *	-	-	-
Time Before Reduction *	15	15	-
Time To Reduce *	30	30	-
Minimum Gap	3.0	3.0	-
Recall Mode	MIN RECALL	MIN RECALL	-
Vehicle Call Memory	YELLOW	YELLOW	-
Dual Entry	-	-	-
Simultaneous Gap	ON	ON	ON

* 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	
	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	
	Construction Zone	
	Video Detector	
	Construction Zone Drums	
A	No Right Turn Sign (R3-1)	A
B	No Left Turn Sign (R3-2)	B

Signal Upgrade
Temporary Design 2 - (TMP Phase 1, Step 1B)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for: Transportation Mobility and Safety Division, Signal Design Section, Department of Transportation, State of North Carolina
750 N.Greenfield Pkwy,Garner,NC 27529

NC 42 at Flowers Parkway

Division 4 Johnston County Clayton

PLAN DATE:	April 2020	REVIEWED BY:	WJ Hamilton
PREPARED BY:	JT Stiff	RKA PROJ. NO:	19160 (040)

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

DocuSigned by: William J. Hamilton 4/30/20
SIGNATURE DATE

SIG. INVENTORY NO. 04-1432T2

RAMEY KEMP ASSOCIATES
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4/29/2020
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