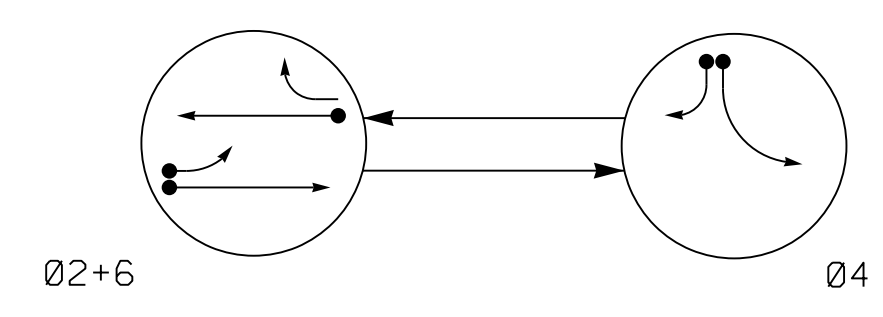


PHASING DIAGRAM



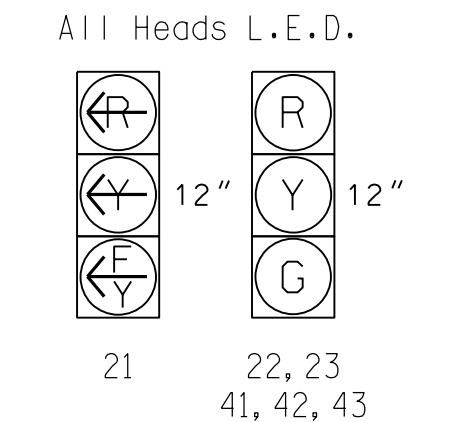
PHASING DIAGRAM DETECTION LEGEND

- ◄●► DETECTED MOVEMENT
- ◄◄◄ UNDETECTED MOVEMENT (OVERLAP)
- ◄-◄ UNSIGNALIZED MOVEMENT
- ◄-◄-◄ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø2+6	Ø4	FLASH
21	F	R	Y
22, 23	G	R	Y
41, 42, 43	R	G	R
61, 62	G	R	Y

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

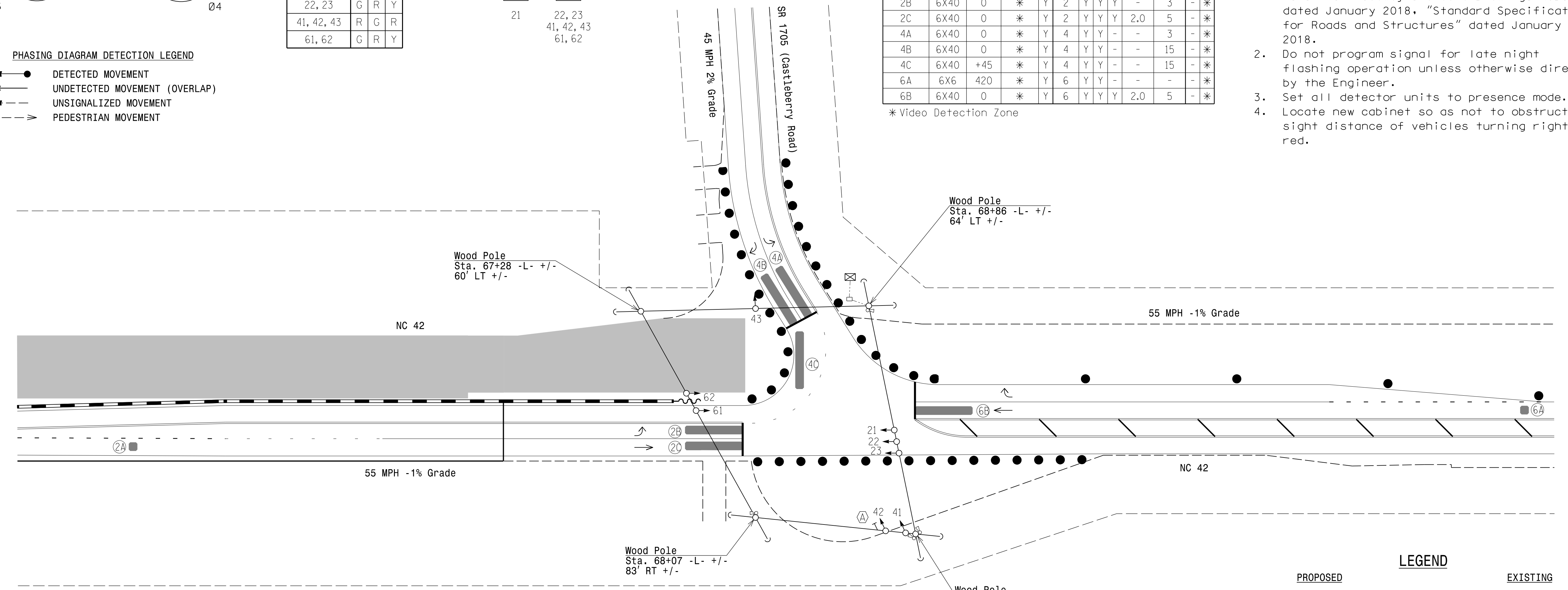
LOOP	INDUCTIVE LOOPS				DETECTOR PROGRAMMING					SYSTEM LOOP	NEW CARD
	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION FULL TIME DELAY	STRETCH TIME	DELAY TIME		
2A	6X6	420	*	Y	2	Y	Y	-	-	-	*
2B	6X40	0	*	Y	2	Y	Y	-	-	3	*
2C	6X40	0	*	Y	2	Y	Y	2.0	5	-	*
4A	6X40	0	*	Y	4	Y	Y	-	-	3	*
4B	6X40	0	*	Y	4	Y	Y	-	-	15	*
4C	6X40	+45	*	Y	4	Y	Y	-	-	15	*
6A	6X6	420	*	Y	6	Y	Y	-	-	-	*
6B	6X40	0	*	Y	6	Y	Y	2.0	5	-	*

* Video Detection Zone

2 Phase Fully Actuated Isolated

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. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.



OASIS 2070 TIMING CHART

FEATURE	PHASE		
	2	4	6
Min Green 1 *	14	7	14
Extension 1 *	6.0	2.0	6.0
Max Green 1 *	90	45	90
Yellow Clearance	5.3	3.1	5.3
Red Clearance	1.6	2.8	1.1
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	3.4	-	3.4
Recall Mode	MIN RECALL	-	MIN RECALL
Vehicle Call Memory	-	-	-
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 Traffic Signal Head Sign		Existing Traffic Signal Head Sign
	Proposed Signal Pole with Guy		Existing Signal Pole with Guy
	Proposed Signal Pole with Sidewalk Guy		Existing Signal Pole with Sidewalk Guy
	Proposed Video Detection Area		Existing Video Detection Area
	Proposed Video Detector		Existing Video Detector
	Proposed Cabinet and Junction Box		Existing Cabinet and Junction Box
	Proposed Oversized Junction Box		Existing Oversized Junction Box
	Proposed 2-in Underground Conduit		Existing 2-in Underground Conduit
	Proposed Right of Way		Existing Right of Way
	Proposed Directional Arrow		Existing Directional Arrow
	Proposed Construction Zone		Existing Construction Zone
	Proposed Construction Drums		Existing Construction Drums
	Proposed Right Arrow "ONLY" Sign (R3-5R)		Existing Right Arrow "ONLY" Sign (R3-5R)

New Installation - Temporary Design 1 (TMP Phase II)

Prepared by
URS
URS Corporation - North Carolina
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Morrisville, North Carolina 27560
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NC LICENSE # C-2243

Prepared for the Offices of:

 TRANSPORTATION MOBILITY AND SAFETY DIVISION
 DEPARTMENT OF TRANSPORTATION
 SIGNAL DESIGN SECTION
 750 N. Greenfield Pkwy, Garner, NC 27529

NC 42 at SR 1705 (Castleberry Road)
 Division 4 Johnston County Clayton
 PLAN DATE: January 2018 REVIEWED BY: C. L. Kalencik
 PREPARED BY: S. W. COX REVIEWED BY:
 REVISIONS: _____ INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

C. L. KALENCIK
 ENGINEER
 5/25/2018
 SIG. INVENTORY NO. 04-1241T1

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