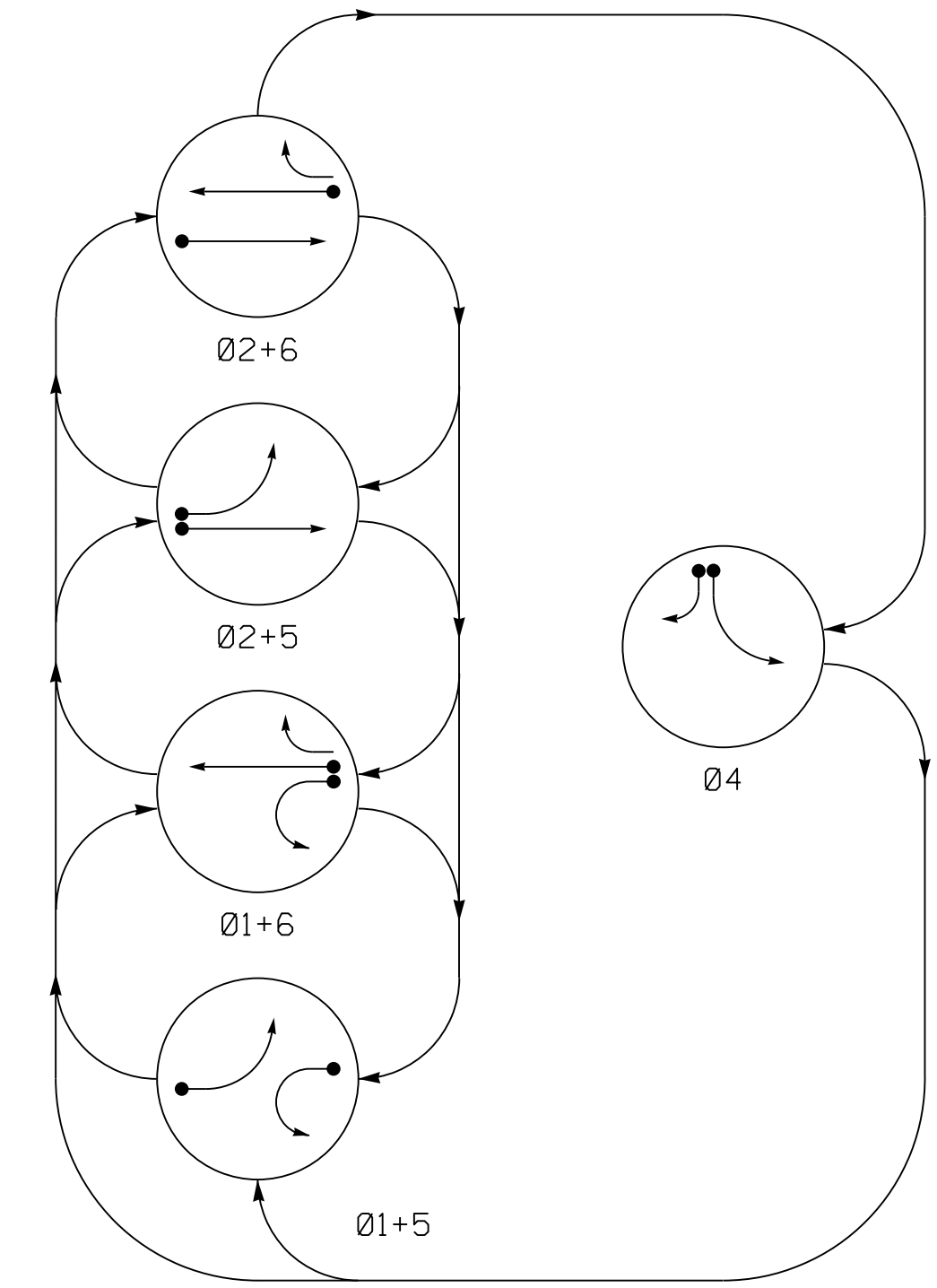


**PHASING DIAGRAM**



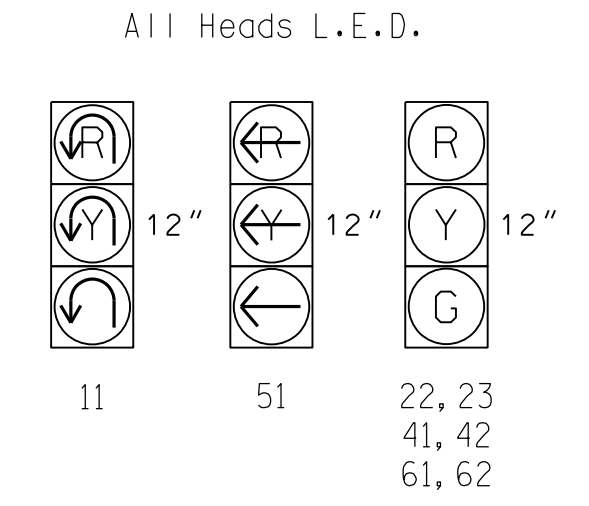
**PHASING DIAGRAM DETECTION LEGEND**

- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- ←○→ UNSIGNALIZED MOVEMENT
- ←○→ PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE				
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 4+8
11	←	←	←	←	←
22, 23	R	R	G	G	Y
41, 42	R	R	R	R	G
51	←	←	←	←	←
61, 62	R	G	R	G	Y

**SIGNAL FACE I.D.**



**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

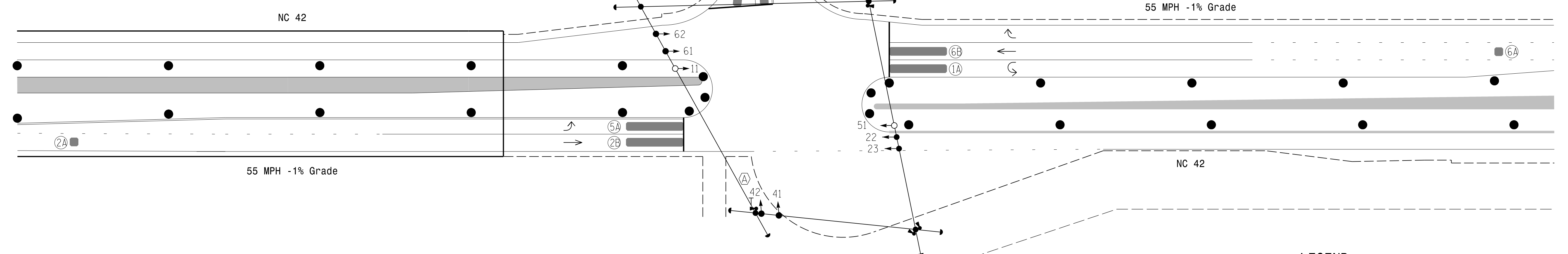
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING								
				NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	*	Y	1	Y	Y	-	-	15	-	*
2A	6X6	420	*	Y	2	Y	Y	-	-	-	-	*
2B	6X40	0	*	Y	2	Y	Y	Y	2.0	5	-	*
4A	6X40	0	*	Y	4	Y	Y	-	-	3	-	*
4B	6X40	0	*	Y	4	Y	Y	-	-	15	-	*
5A	6X40	0	*	Y	5	Y	Y	-	-	15	-	*
6A	6X6	420	*	Y	6	Y	Y	-	-	-	-	*
6B	6X40	0	*	Y	6	Y	Y	Y	2.0	5	-	*

\* Video Detection Zone

**5 Phase Fully Actuated Isolated**

**NOTES**

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018, "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 and/or phase 5 may be lagged.
- Reposition existing signal heads numbered 41, 42, 61, 62 and 63.
- Set all detector units to presence mode.



**OASIS 2070 TIMING CHART**

FEATURE	PHASE				
	1	2	4	5	6
Min Green 1 *	7	14	7	7	14
Extension 1 *	2.0	6.0	2.0	2.0	6.0
Max Green 1 *	25	90	45	25	90
Yellow Clearance	3.0	5.3	3.1	3.2	5.3
Red Clearance	3.3	1.1	2.6	2.8	1.4
Red Revert	2.0	2.0	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	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**

	<b>PROPOSED</b>	Traffic Signal Head Sign		<b>EXISTING</b>	Traffic Signal Head Sign
	<b>PROPOSED</b>	Signal Pole with Guy		<b>EXISTING</b>	Signal Pole with Guy
	<b>PROPOSED</b>	Signal Pole with Sidewalk Guy		<b>EXISTING</b>	Signal Pole with Sidewalk Guy
	<b>PROPOSED</b>	Radar Detection Area		<b>EXISTING</b>	Radar Detection Area
	<b>PROPOSED</b>	Video Detector		<b>EXISTING</b>	Video Detector
	<b>PROPOSED</b>	Controller & Cabinet		<b>EXISTING</b>	Controller & Cabinet
	<b>PROPOSED</b>	Junction Box		<b>EXISTING</b>	Junction Box
	<b>PROPOSED</b>	Oversized Junction Box		<b>EXISTING</b>	Oversized Junction Box
	<b>PROPOSED</b>	2-in Underground Conduit		<b>EXISTING</b>	2-in Underground Conduit
	<b>PROPOSED</b>	Right of Way		<b>EXISTING</b>	Right of Way
	<b>PROPOSED</b>	Directional Arrow		<b>EXISTING</b>	Directional Arrow
	<b>PROPOSED</b>	Construction Zone		<b>EXISTING</b>	Construction Zone
	<b>PROPOSED</b>	Construction Drums		<b>EXISTING</b>	Construction Drums
	<b>PROPOSED</b>	Right Arrow "ONLY" Sign (R3-5R)		<b>EXISTING</b>	Right Arrow "ONLY" Sign (R3-5R)

**New Installation - Temporary Design 2 (TMP Phase III)**

Prepared by  
**URS**  
URS Corporation - North Carolina  
1600 Perimeter Park Drive  
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  
STATE OF NORTH CAROLINA  
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

SEAL 040715  
C. L. KALENICK  
ENGINEER  
5/25/2018  
SIG. INVENTORY NO. 04-1241T2

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