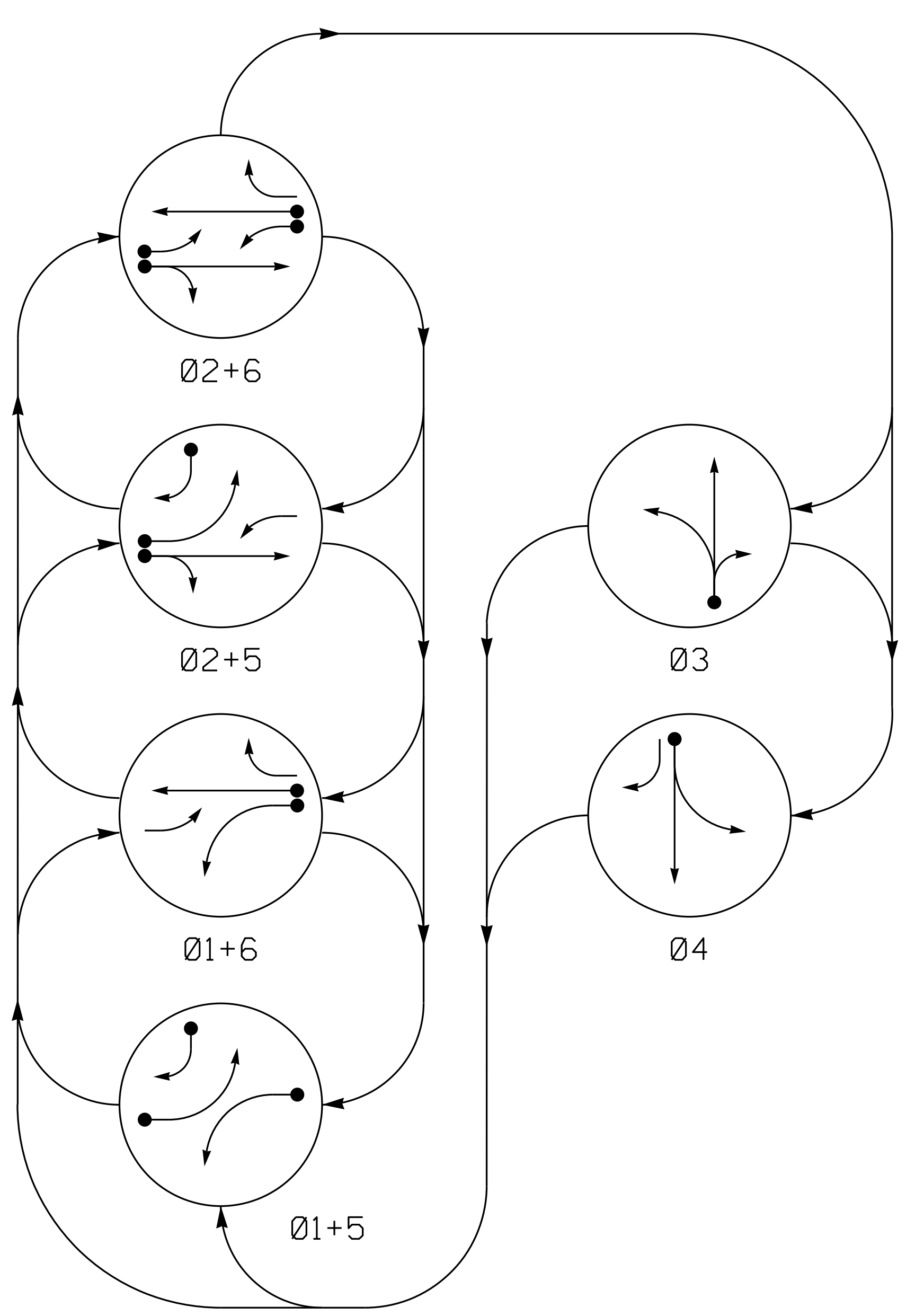
PROJECT REFERENCE NO.	SHEET NO.
R-3825B	Sig.6.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

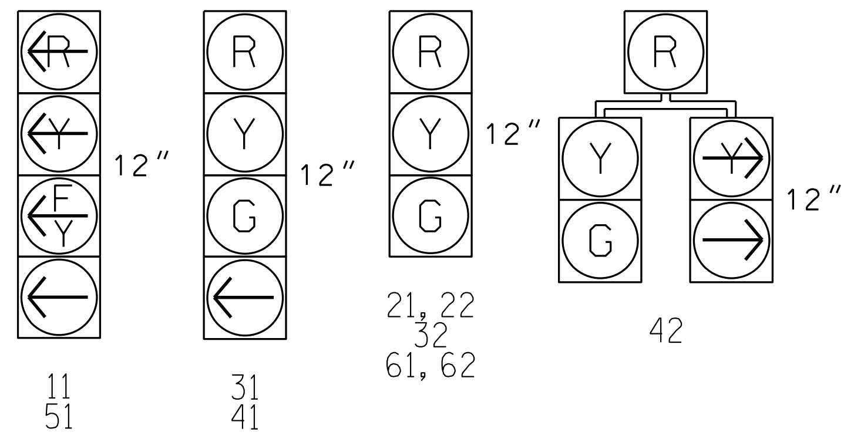
◄——●	DETECTED MOVEMENT
◄——	UNDETECTED MOVEMENT (OVERLAP)
◄– –	UNSIGNALIZED MOVEMENT
<– – –>	PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø3	Ø4	FLASH
11	←	←	← F/Y	← F/Y	←R	←R	←Y
21, 22	R	R	G	G	R	R	Y
31	R	R	R	R	G ←	R	R
32	R	R	R	R	G	R	R
41	R	R	R	R	R	G ←	R
42	R/→	R	R/→	R	R	G	R
51	←	← F/Y	←	← F/Y	←R	←R	←Y
61, 62	R	G	R	G	R	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

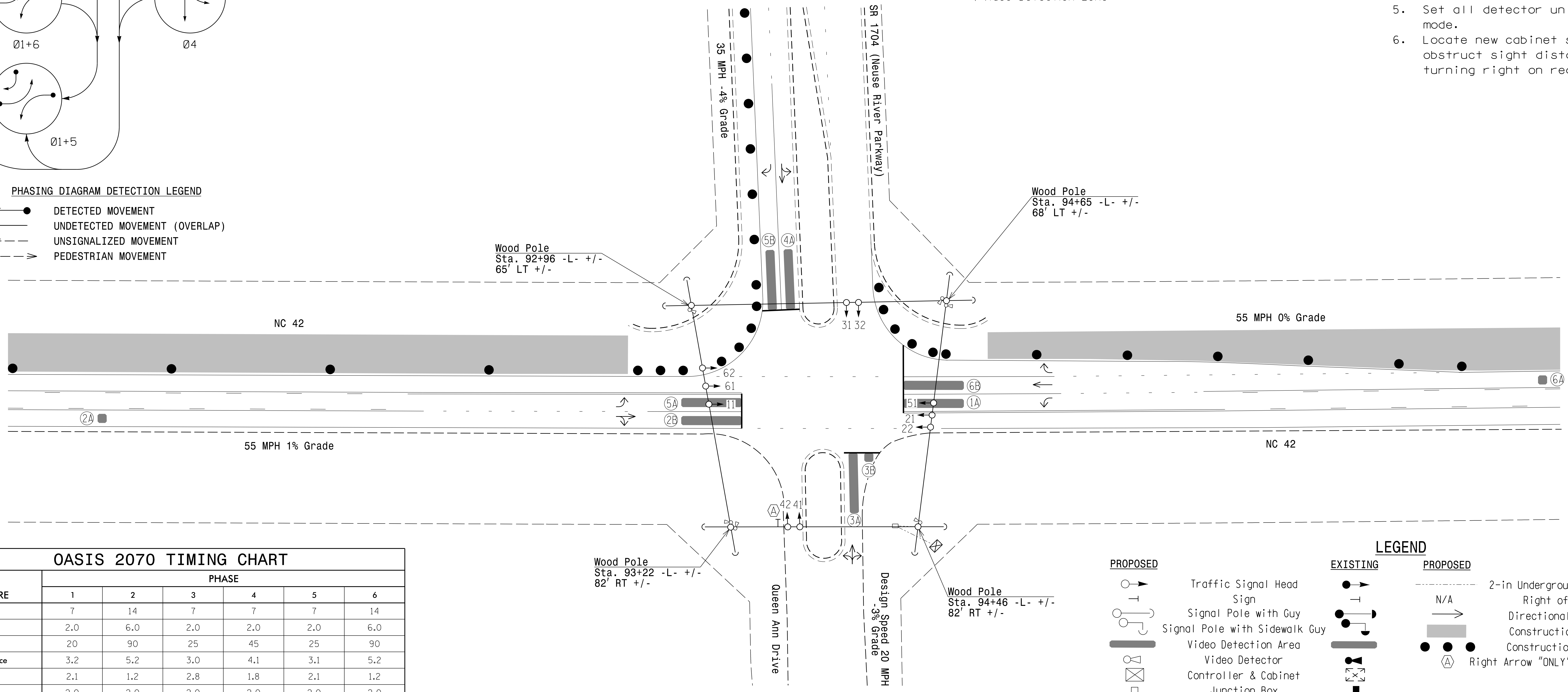
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	✳	Y	1	Y	Y	-	-	15	-	✳
					6	Y	Y	Y	-	3	-	✳
2A	6X6	420	✳	Y	2	Y	Y	-	-	-	-	✳
2B	6X40	0	✳	Y	2	Y	Y	Y	2.0	5	-	✳
3A	6X40	0	✳	Y	3	Y	Y	-	-	10	-	✳
3B	6X6	0	✳	Y	3	Y	Y	-	-	15	-	✳
4A	6X40	0	✳	Y	4	Y	Y	-	-	-	-	✳
5A	6X40	0	✳	Y	5	Y	Y	-	-	15	-	✳
					2	Y	Y	Y	-	3	-	✳
5B	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

6 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. Phase 1 and/or phase 5 may be lagged.
4. The order of phase 3 and phase 4 may be reversed.
5. Set all detector units to presence mode.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.



OASIS 2070 TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6
Min Green 1 *	7	14	7	7	7	14
Extension 1	2.0	6.0	2.0	2.0	2.0	6.0
Max Green 1 *	20	90	25	45	25	90
Yellow Clearance	3.2	5.2	3.0	4.1	3.1	5.2
Red Clearance	2.1	1.2	2.8	1.8	2.1	1.2
Red Revert	2.0	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	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	●→
⊣	Sign	⊣
○——)	Signal Pole with Guy	●——◗
○—⌐	Signal Pole with Sidewalk Guy	●—⌐
▬	Video Detection Area	▬
○◁	Video Detector	●◀
☒	Controller & Cabinet	⊠
□	Junction Box	■
▭	Oversized Junction Box	▬

PROPOSED		EXISTING
- - - - -	2-in Underground Conduit	-·-·-·-
N/A	Right of Way	— — —
⟶	Directional Arrow	⟶
▨	Construction Zone	▨
● ● ●	Construction Drums	N/A
⟨A⟩	Right Arrow "ONLY" Sign (R3-5R)	Ⓐ

Prepared by
URS
URS Corporation – North Carolina
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NC LICENSE # C-2243

Signal Upgrade - Temporary Design 1 (TMP Phase 1)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

NC 42
at
SR 1704 (Neuse River Parkway)/
Queen Ann Drive

Division 4 Johnston County Clayton

PLAN DATE:	January 2018	REVIEWED BY:	C. L. Kalencik
PREPARED BY:	S. W. Cox	REVIEWED BY:	

SCALE
0 40
1"=40'
N

REVISIONS	INIT.	DATE

SEAL 040715
DocuSigned by:
Courtney L. Kalencik
0FE9158CE2B64FE...
5/25/2018

SIG. INVENTORY NO. 04-1412T1

5/25/2018
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