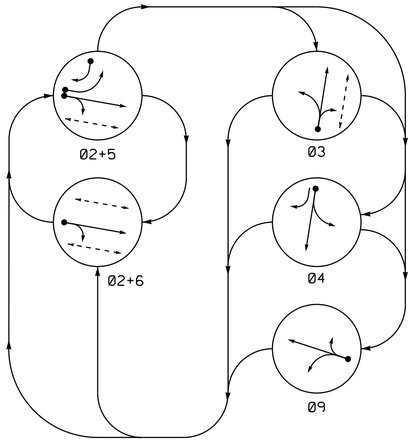
PROJECT REFERENCE NO.	SHEET NO.
U-4715 B	Sig. 10.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

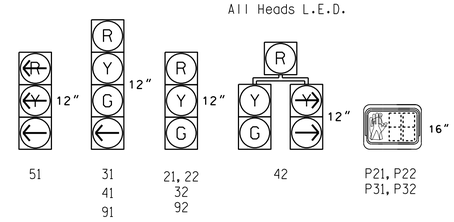
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE 02+6	02+5	03	04	09	FLASH
21, 22	G	G	R	R	R	Y
31	R	R	G	R	R	R
32	R	R	G	R	R	R
41	R	R	R	G	R	R
42	R	R	R	G	R	R
51	R	R	R	R	R	R
91	R	R	R	R	G	R
92	R	R	R	R	G	R
P21, P22	W	W	DW	DW	DW	DRK
P31, P32	DW	DW	W	DW	DW	DRK
P61, P62	W	DW	DW	DW	DW	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



Accessible Pedestrian signal

P61, P62
See notes #7 & #8

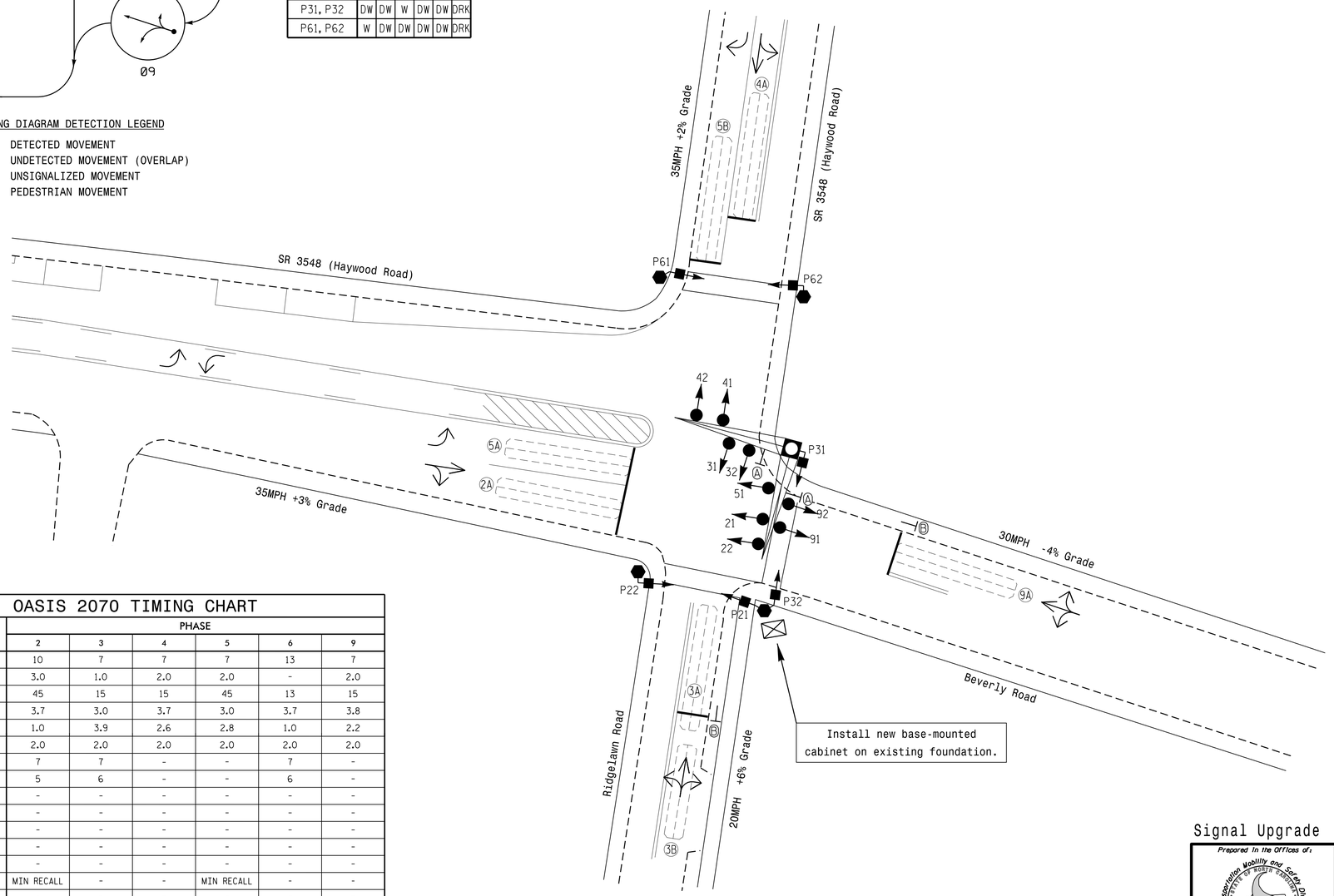
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

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
2A	6X40	0	2-4-2	-	2	Y	Y	-	-	10	-	Y
3A	6X40	+35	2-4-2	-	3	Y	Y	Y	-	5	-	Y
3B	6X30	10	2-4-2	-	3	Y	Y	-	-	-	-	Y
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	3	-	Y
5A	6X40	0	2-4-2	-	5	Y	Y	-	-	-	-	Y
5B	6X40	0	2-4-2	-	5	Y	Y	-	-	15	-	Y
9A	6X40	0	2-4-2	-	9	Y	Y	-	-	-	-	Y

5 Phase
Fully Actuated
Asheville Signal System

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 5 may be leading.
4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
7. Pedestrian pushbuttons P61 & P62 shall be Vibro-Tactile.
8. Accessible pedestrian signals P61 & P62 shall use the "Rapid Tick" sound.
9. Pavement markings are existing.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



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	
	Metal Pole with Mastarm	
	Type II Signal Pedestal	
Ⓐ	"NO TURN ON RED" Sign (R10-11)	Ⓐ
Ⓑ	"STOP HERE ON RED" Sign (R10-6)	Ⓑ

OASIS 2070 TIMING CHART

FEATURE	PHASE 2	3	4	5	6	9
Min Green 1 *	10	7	7	7	13	7
Extension 1 *	3.0	1.0	2.0	2.0	-	2.0
Max Green 1 *	45	15	15	45	13	15
Yellow Clearance	3.7	3.0	3.7	3.0	3.7	3.8
Red Clearance	1.0	3.9	2.6	2.8	1.0	2.2
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	7	7	-	-	7	-
Don't Walk 1	5	6	-	-	6	-
Seconds Per Actuation *	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
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.

Signal Upgrade

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

SR 3548(Haywood Road) / Beverly Road at SR 3548 (Haywood Road) / Ridgelawn Road

Division 13 Buncombe County Asheville

PLAN DATE: November 2015	REVIEWED BY: T.J. Williams
PREPARED BY: R.N. Zinser	REVIEWED BY:

SCALE 0 20 1"=20'

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 043914 ENGINEER RICHARD N. ZINSER

DocuSigned by: Richard N. Zinser 8/11/2016
F13B9973472248F DATE

SIG. INVENTORY NO. 13-0049

11-AUG-2016 11:07
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