PROJECT REFERENCE NO.	SHEET NO.
U-5169	Sig. 3.0

PHASING DIAGRAM

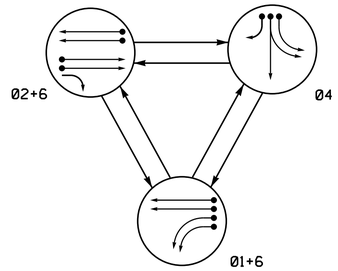
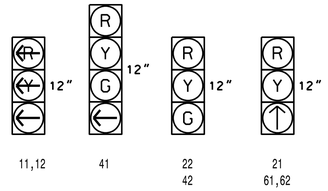


TABLE OF OPERATION				
SIGNAL FACE	PHASE Ø1+6	PHASE Ø2+6	PHASE Ø4	FLASH
11,12	←	R	R	R
21	R	↑	R	Y
22	R	G	R	Y
41	R	R	G	R
42	R	R	G	R
61,62	↑	↑	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION

INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	*	0	*	*	1	Y	Y	-	-	3	-	*
1B	*	0	*	*	1	Y	Y	-	-	-	-	*
2A	*	300	*	*	2	Y	Y	-	1.6	-	-	*
2B	*	90	*	*	2	Y	Y	-	-	-	-	*
4A	*	0	*	*	4	Y	Y	-	-	-	-	*
4B	*	0	*	*	4	Y	Y	-	-	-	-	*
4C	*	0	*	*	4	Y	Y	-	-	15	-	*
6A	*	300	*	*	6	Y	Y	-	1.6	-	-	*
6B	*	90	*	*	6	Y	Y	-	-	-	-	*
S1	*	+220	*	*	-	Y	Y	-	-	-	Y	*
S2	*	+220	*	*	-	Y	Y	-	-	-	Y	*

* Multi-Zone Microwave Detection

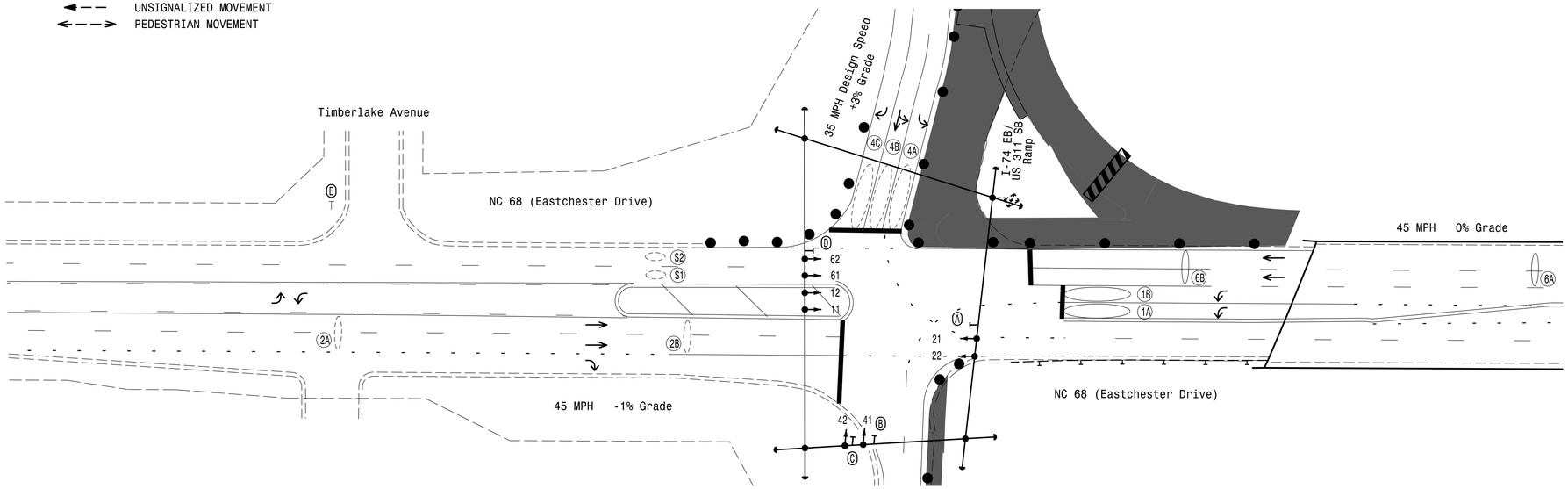
3 Phase
Fully Actuated
(High Point Signal System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "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 may be lagged.
4. Reposition existing signal heads numbered 41 and 42, and signs B and C.
5. Set all detector units to presence mode.
6. A multiple zone microwave detection system is used to provide traffic detection during the temporary phase on approaches where the existing loops and lead-ins have been rendered inoperable by construction. Perform installation according to manufacturer's directions and NCDOT engineer- approved mounting locations to accomplish the direction schemes shown on the Signal Design Plans.
7. Pavement markings are existing unless otherwise shown.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND

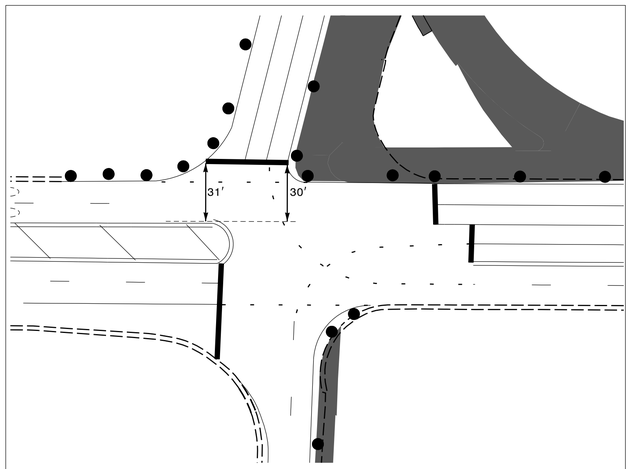
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT



OASIS 2070 TIMING CHART

FEATURE	PHASE 1	PHASE 2	PHASE 4	PHASE 6
Min Green 1 *	7	12	7	12
Extension 1 *	3.0	2.0	2.0	2.0
Max Green 1 *	40	60	25	60
Yellow Clearance	3.0	4.6	3.7	4.5
Red Clearance	3.6	1.0	2.6	1.9
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	-	SOFT RECALL	-	SOFT RECALL
Vehicle Call Memory	-	YELLOW	-	YELLOW
Dual Entry	-	-	-	-
Simultaneous Gap	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.



PROPOSED STOP BAR LOCATION DIAGRAM

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	→
N/A	Guardrail	⊥⊥
N/A	Curb Ramp	◢
▬	Construction Zone	▬
▬	Construction Zone Drums	▬
⬭	Microwave Detection Zone	<-->
Ⓐ	No U-Turn/Left Turn Sign (R3-18)	Ⓐ
Ⓑ	Left Arrow "ONLY" Sign (R3-5L)	Ⓑ
Ⓒ	Combined Though and Left Arrow Sign (R3-6L)	Ⓒ
Ⓓ	No Right Turn Sign (R3-1)	Ⓓ
Ⓔ	"STOP" Sign (R1-1)	Ⓔ

Project #: 170908

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NCBELS FIRM LICENSE NO. C-2522

Signal Upgrade - Temporary Design 2; TMP-14

Prepared for: Transportation Mobility and Safety Division, Signal Design Section, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
750 N.Greenfield Pkwy.Garner,NC 27529

SCALE 0 40 1"=40'

NC 68 (Eastchester Drive) at I-74 EB/ US 311 SB Ramps

Division 7 Guilford County High Point

PLAN DATE:	May 2018	REVIEWED BY:	L. Boyer
PREPARED BY:	A. Ravipati	REVIEWED BY:	R. Hinshaw

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 032117 ENGINEER ROYAL HINSHAW

DocuSigned by: R. Royal Hinshaw 05/18/2018
SIGNATURE DATE

SIG. INVENTORY NO. 07-1624T2