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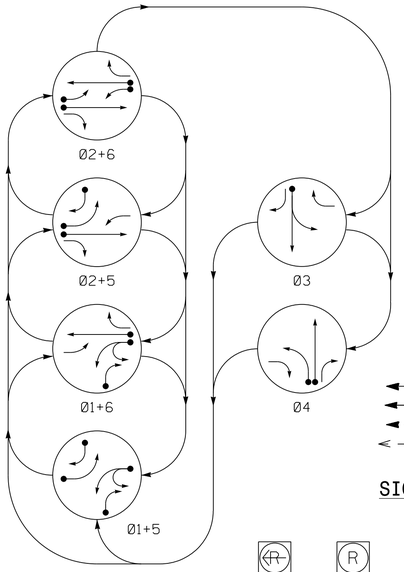
PROJECT REFERENCE NO.	SHEET NO.
R-3830	SIG-16.0

DEFAULT PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 01+05	01+06	02+05	02+06	03	04	FLASH
11	←	←	F Y	F Y	R	R	Y
21	R	R	G	G	R	R	Y
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
63	R	F Y ←	R	F Y ←	→	R	Y

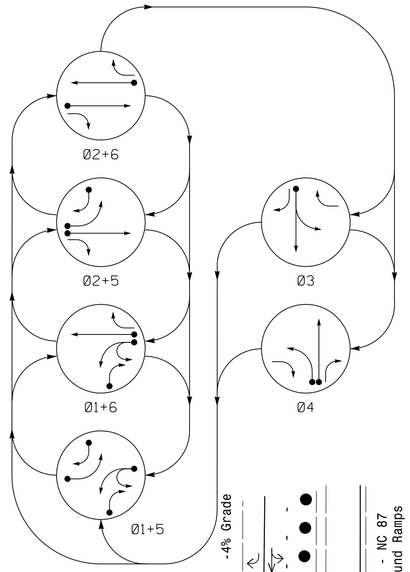
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.

ALTERNATE PHASING DIAGRAM



ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 01+05	01+06	02+05	02+06	03	04	FLASH
11	←	←	R	R	R	R	Y
21	R	R	G	G	R	R	Y
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	←	R ←	←	R	R	R	Y
61,62	R	G	R	G	R	R	Y
63	R	F Y ←	R	F Y ←	→	R	Y

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

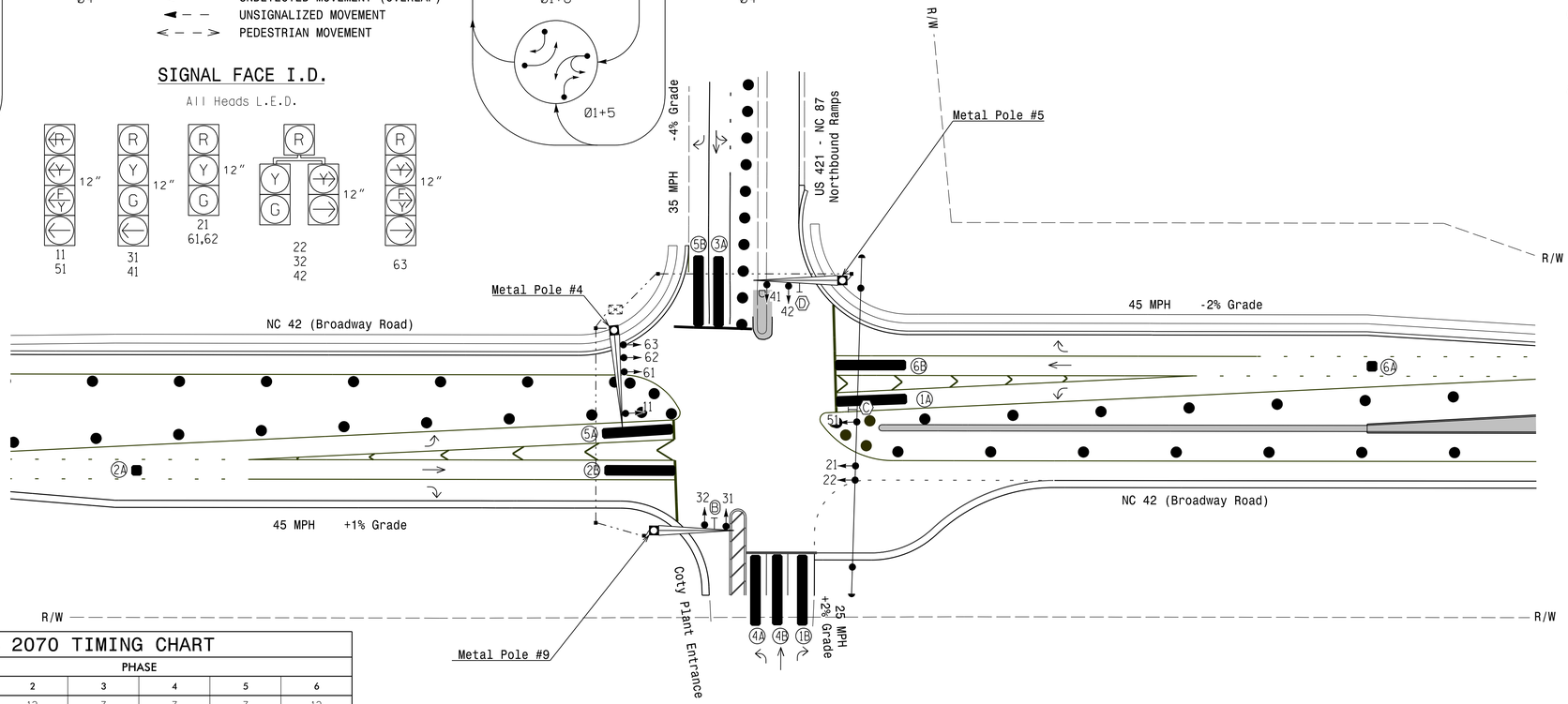
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	✳	✳	1	Y	Y	-	-	★15	-	✳
					#6	Y	Y	Y	-	3	-	✳
1B	6X40	0	✳	✳	1	Y	Y	-	-	15	-	✳
2A	6X6	300	✳	✳	2	Y	Y	-	-	-	-	✳
2B	6X40	0	✳	✳	2	Y	Y	Y	2.0	5	-	✳
3A	6X40	0	✳	✳	3	Y	Y	-	-	-	-	✳
4A	6X40	0	✳	✳	4	Y	Y	-	-	-	-	✳
4B	6X40	0	✳	✳	4	Y	Y	-	-	-	-	✳
5A	6X40	0	✳	✳	5	Y	Y	-	-	★15	-	✳
					#2	Y	Y	Y	-	3	-	✳
5B	6X40	0	✳	✳	5	Y	Y	-	-	15	-	✳
6A	6X6	300	✳	✳	6	Y	Y	-	-	-	-	✳
6B	6X40	0	✳	✳	6	Y	Y	Y	2.0	5	-	✳

✳ Video Detection Area
★ Disable delay during Alternate Phasing Operation.
Disable Phase(s) call during Alternate Phasing Operation.

6 Phase
Fully Acutated
Isolated

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 and/or phase 5 may be lagged.
4. Reposition existing signal heads numbered #11,22,31,51,61,62,63, cover sign A, & remove sign C beside head 11.
5. The order of phase 3 and phase 4 may be reversed.
6. Set all detector units to presence mode.
7. The Division Traffic Engineer will determine the hours of use for each phasing plan.
8. This location utilizes a video detection system. Camera locations should be confirmed in the field by the contractor in order to provide detection of the areas indicated.



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	□
▬	Video Detection Area	N/A
▭	Construction Zone	N/A
● ● ●	Drums	N/A
Ⓑ	Combined Thru and Left Arrow Sign (R3-6L)	Ⓑ
Ⓒ	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	Ⓒ
Ⓓ	"RIGHT YIELD TO U-TURN" Sign	Ⓓ

OASIS 2070 TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6
Min Green 1 *	7	12	7	7	7	12
Extension 1	2.0	6.0	2.0	2.0	2.0	6.0
Max Green 1 *	20	90	30	25	20	90
Yellow Clearance	3.0	4.7	4.1	3.1	3.0	4.7
Red Clearance	3.1	1.5	2.2	3.3	2.9	1.5
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	-	3.2	-	-	-	3.2
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 -
Temporary Design 2 (TMP Phase II)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Stantec
Stantec Consulting Services Inc.
801 Jones Franklin Road-Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

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

NC 42 (Broadway Road)
at
US 421-NC 87 Northbound Ramps/
Coty Plant Entrance

Division 8 Lee County Sanford

PLAN DATE: NOVEMBER 2019 REVIEWED BY: D Harris
PREPARED BY: B T Keffer REVIEWED BY: B L Watson

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

NORTH CAROLINA PROFESSIONAL SEAL 43239 ENGINEER REGINA M. MUNCEY

DocuSigned by: Regina M. Muncey 11/5/2019
SIGNATURE DATE

SIG. INVENTORY NO. 08-106572

$$$$$$$SYSDATE$$$$$$
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