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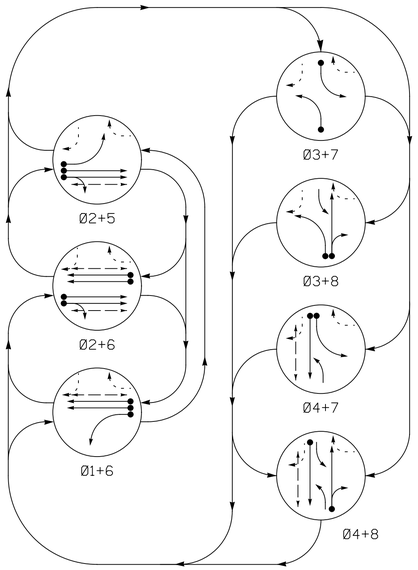
PROJECT REFERENCE NO.	SHEET NO.
R-5735	SIG-1.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE 01+06	02+06	02+05	03+07	03+08	04+07	04+08	FLASH
11	↚	̸R	̸R	̸R	̸R	̸R	̸R	̸Y
21,22	R	G	G	R	R	R	R	Y
31	̸R	̸R	̸R	↚	↚	̸F̸Y	̸F̸Y	̸R
41,42	R	R	R	R	R	G	G	R
51	̸R	̸R	↚	̸R	̸R	̸R	̸R	̸Y
61,62	G	G	R	R	R	R	R	Y
71	̸R	̸R	̸R	↚	̸F̸Y	↚	̸F̸Y	̸R
81,82	R	R	R	R	G	R	G	R
P21,P22	DW	W	W	DW	DW	DW	DW	DRK
P41,P42	DW	DW	DW	DW	DW	W	W	DRK
P61,P62	W	W	DW	DW	DW	DW	DW	DRK

SIGNAL FACE I.D.

All Heads L.E.D.

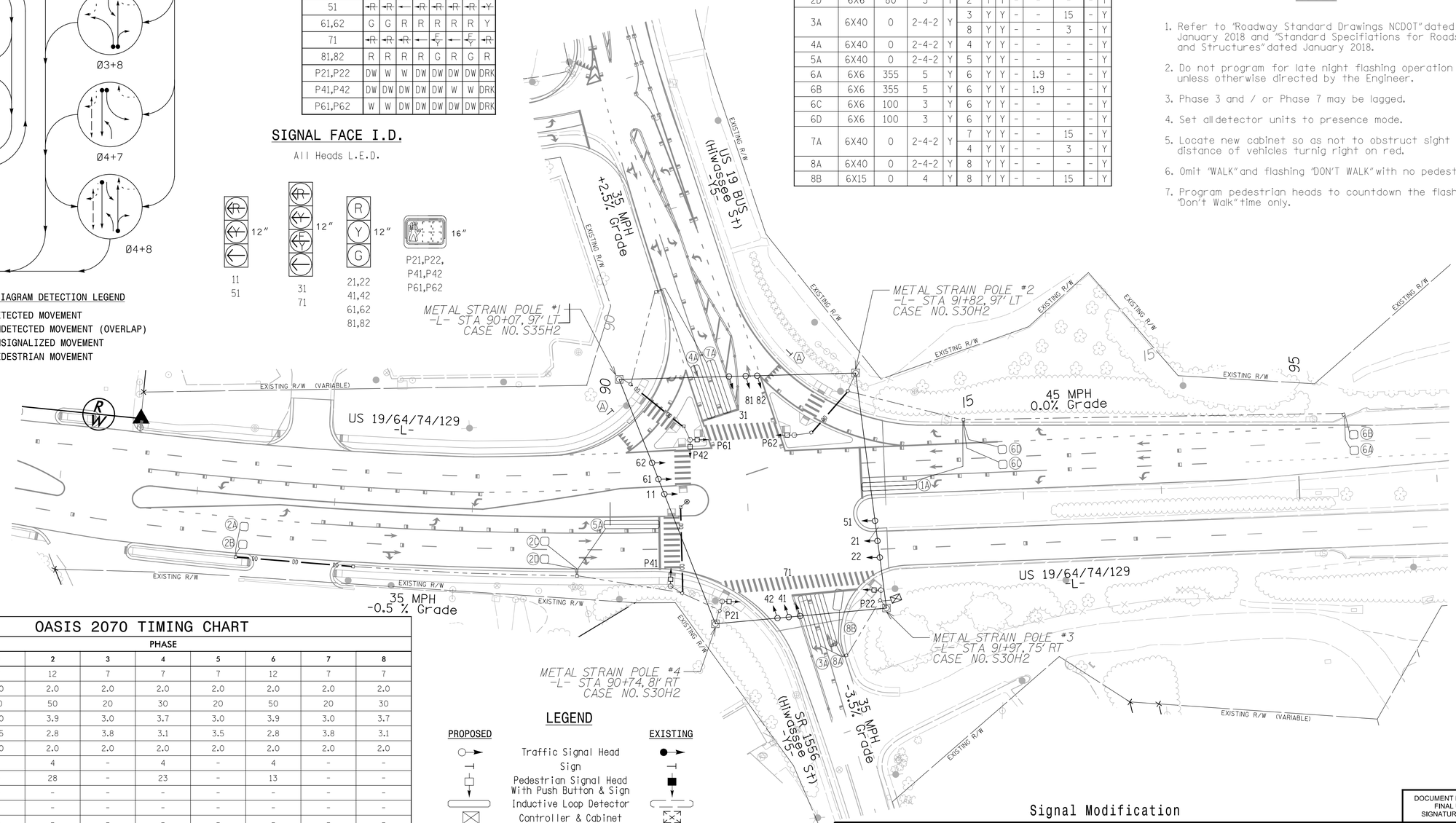
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

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	2-4-2	Y	1	Y	Y	-	-	-	-	Y
2A	6X6	300	4	Y	2	Y	Y	-	2.3	-	-	Y
2B	6X6	300	4	Y	2	Y	Y	-	2.3	-	-	Y
2C	6X6	80	3	Y	2	Y	Y	-	-	-	-	Y
2D	6X6	80	3	Y	2	Y	Y	-	-	-	-	Y
3A	6X40	0	2-4-2	Y	3	Y	Y	-	-	15	-	Y
					8	Y	Y	-	-	3	-	Y
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	Y
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	-	-	Y
6A	6X6	355	5	Y	6	Y	Y	-	1.9	-	-	Y
6B	6X6	355	5	Y	6	Y	Y	-	1.9	-	-	Y
6C	6X6	100	3	Y	6	Y	Y	-	-	-	-	Y
6D	6X6	100	3	Y	6	Y	Y	-	-	-	-	Y
7A	6X40	0	2-4-2	Y	7	Y	Y	-	-	15	-	Y
					4	Y	Y	-	-	3	-	Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	-	Y
8B	6X15	0	4	Y	8	Y	Y	-	-	15	-	Y

7 Phase
Fully Actuated
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 for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 3 and / or Phase 7 may be lagged.
4. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turnig right on red.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.



OASIS 2070 TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6	7	8
Min Green 1 *	7	12	7	7	7	12	7	7
Extension 1 *	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Max Green 1 *	20	50	20	30	20	50	20	30
Yellow Clearance	3.0	3.9	3.0	3.7	3.0	3.9	3.0	3.7
Red Clearance	3.5	2.8	3.8	3.1	3.5	2.8	3.8	3.1
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	4	-	4	-	4	-	-
Don't Walk 1	-	28	-	23	-	13	-	-
Seconds Per Actuation *	-	-	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-	-
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW	-	-
Dual Entry	-	-	-	ON	-	-	-	ON
Simultaneous Gap	ON	ON	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	
	Pedestrian Signal Head With Push Button & Sign	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
DD	Directional Drill	N/A
	Metal Strain Pole	
	Yield Sign (R1-2)	
	Type I Pushbutton Post	
	Type II Signal Pedestal	

Signal Modification

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

SCALE 1"=40' (0 – 40)

US 19/64/74/129
at
US 19 BUS/SR 1556 (Hiwassee St)

Division 14 Cherokee County Near Murphy

PLAN DATE: December 2018	REVIEWED BY: Z HARRIS
PREPARED BY: K M CORY	REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 038970 ENGINEER KELLY M CORY

DocuSigned by: Kelly M Cory 2/28/2019
SIGNATURE DATE

SIG. INVENTORY NO. 14-0021

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KMCory AT CARYWKCORY