	PROJECT REFERENCE NO.	SHEET NO.
	W-5520	Sig 18.0

2 Phase
Fully Actuated
US 74 - Indian Trail CLS#2

PHASING DIAGRAM

Ø2   Ø7

PHASING DIAGRAM DETECTION LEGEND

→● DETECTED MOVEMENT
→ UNDETECTED MOVEMENT (OVERLAP)
→ UNSIGNALIZED MOVEMENT
←---→ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø2	Ø7	FLASH
21,22	G	R	Y
71,72,73	R	→	R

SIGNAL FACE I.D.

All Heads L.E.D.

21,22   71,72,73

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	6X6	420	5	Y	2	Y	Y	-	-	-	-	Y
2B	6X6	420	5	Y	2	Y	Y	-	-	-	-	Y
7A	6X40	+5	2-4-2	Y	7	Y	Y	-	-	10	-	Y
7B	6X30	0	2-4-2	Y	7	Y	Y	-	-	10	-	Y

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. Set all detector units to presence mode.
4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. Install combination panel with pedestal extension (see Std drawing 1700.01).
6. Tether signs A and B. Install appropriate sign hardware and additional messenger cable.
7. Coordinate construction with signal 10-2191 - shared poles, spans, pullboxes and conduit runs.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
9. Closed loop system data: Controller Asset #2192.

-L3- STA 313+86+/- 67'+/- LT
-L3- STA 315+27+/- 81'+/- LT
-L3- STA 314+11+/- 76'+/- RT
-L3- STA 315+76+/- 72'+/- RT

35 mph 2.6% Grade
55 mph 3% Grade
55 mph -1% Grade
35 mph -1.5% Grade

SR 1518 (Faith Church Road)

US 74 (Andrew Jackson Highway) WB
US 74 (Andrew Jackson Highway) EB

Harris Teeter Distribution Center

shared underground route with 10-2191

OASIS 2070 TIMING CHART

FEATURE	PHASE	
	2	7
Min Green 1 *	14	7
Extension 1 *	6.0	2.0
Max Green 1 *	90	30
Yellow Clearance	5.3	3.0
Red Clearance	1.4	3.0
Red Revert	2.0	2.0
Walk 1 *	-	-
Don't Walk 1	-	-
Seconds Per Actuation *	1.5	-
Max Variable Initial *	46	-
Time Before Reduction *	15	-
Time To Reduce *	30	-
Minimum Gap	3.4	-
Recall Mode	MIN RECALL	-
Vehicle Call Memory	YELLOW	-
Dual Entry	-	-
Simultaneous Gap	ON	ON

* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 2 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

SIGN LEGEND

WEST
74
↓
A

CARS ONLY ↱
B

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	
□	Oversized Junction Box	■
	2-in Underground Conduit	
	Directional Drill	N/A
	Right of Way	
—P—	Underground Power Line	—P—
—T—	Underground Telephone Cable	—T—
—G—	Underground Gas Line	—G—
	Directional Arrow	
Ⓐ	See Sign Legend	Ⓐ
	Construction Zone	

PLANS PREPARED BY:

DRMP
ENGINEERS · PLANNERS · SCIENTISTS
DRMP, INC.
5950 FAIRVIEW ROAD, SUITE 320
CHARLOTTE, NC 28210
NC LICENSE NO. C-2213 • (704) 332-2289

Signal Upgrade
TCP Phase II - Temporary Design

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

US 74 (Andrew Jackson Highway)
Eastbound
at
Harris Teeter Distribution Cntr
Division 10   Union County   Indian Trail

PLAN DATE:	June 2015	REVIEWED BY:	L. Moon
PREPARED BY:	D. Ondieki	REVIEWED BY:	J. Highland

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
022516
ENGINEER
LISA M. MOON

REVISIONS		INIT.	DATE

Lisa M. Moon   8/30/2016
SIGNATURE   DATE

SCALE
0   40
1"=40'

SIG. INVENTORY NO. 10-2192TI