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PROJECT REFERENCE NO.	SHEET NO.
U-5887	Sig. 2.0

PHASING DIAGRAM

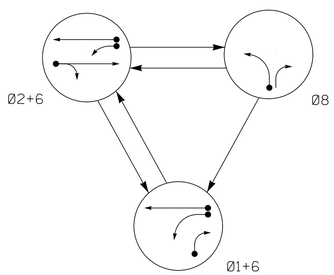
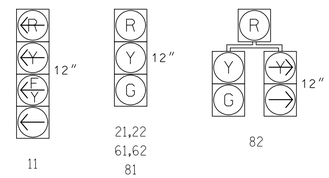


TABLE OF OPERATION				
SIGNAL FACE	PHASE			
	Ø1+6	Ø2+6	Ø8	FLASH
11	←	F Y	R	Y
21,22	R	G	R	Y
61,62	G	G	R	Y
81	R	R	G	R
82	R	R	G	R

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	✳	✳	1	Y	Y	-	-	15	-	✳
					6	Y	Y	-	-	-	-	✳
1B	6X40	0	✳	✳	1	Y	Y	-	-	15	-	✳
2A	6X6	70	✳	✳	2	Y	Y	-	-	-	-	✳
6A	6X6	70	✳	✳	6	Y	Y	-	-	-	-	✳
8A	6X40	0	✳	✳	8	Y	Y	-	-	3	-	✳

✳ Video Detection Zone

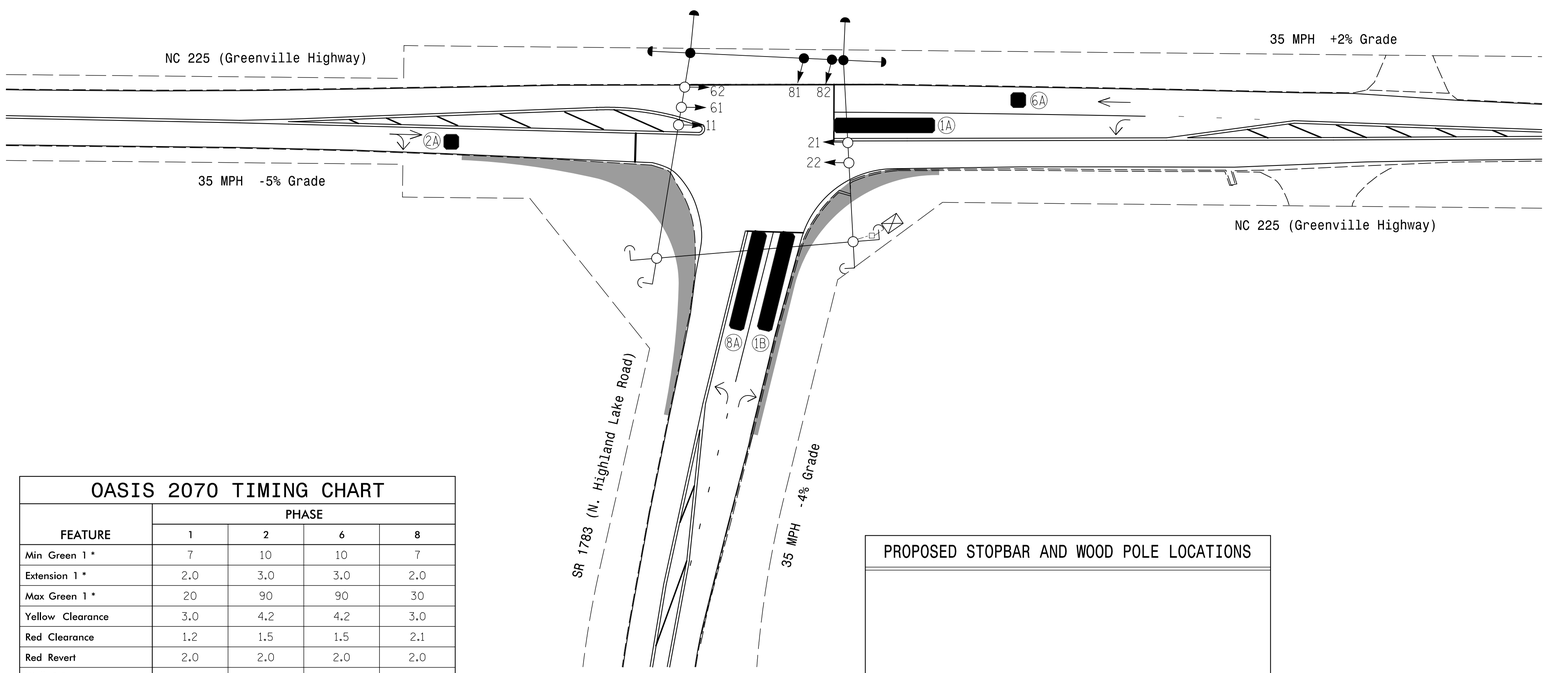
3 Phase
Fully Actuated
Isolated

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 signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 may be lagged.
4. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Pavement markings are existing unless otherwise shown.

PHASING DIAGRAM DETECTION LEGEND

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



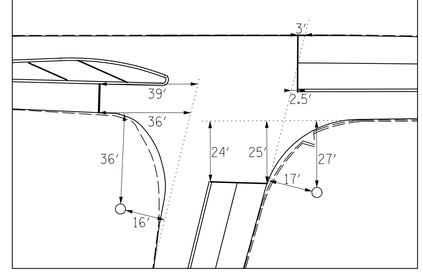
LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Wooden Pole	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
DD	Directional Drill	N/A
	Video Detection Area	
	Construction Zone	N/A

OASIS 2070 TIMING CHART				
FEATURE	PHASE			
	1	2	6	8
Min Green 1 *	7	10	10	7
Extension 1 *	2.0	3.0	3.0	2.0
Max Green 1 *	20	90	90	30
Yellow Clearance	3.0	4.2	4.2	3.0
Red Clearance	1.2	1.5	1.5	2.1
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
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	-	-	-	-
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 STOPBAR AND WOOD POLE LOCATIONS



STV 100 Years
STV Engineers, Inc.
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Charlotte, NC 28202
(704) 372-1885
NC License Number F-0991

Signal Upgrade - Temporary Design

Prepared for 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

NC 225 (Greenville Highway)
at
SR 1783 (N. Highland Lake Road)

Division 14 Henderson County East Flat Rock

PLAN DATE:	June 2019	REVIEWED BY:	R. Dubnicka
PREPARED BY:	J. Trueblood	REVIEWED BY:	J. Carroll

SCALE 0 30 1"=30'

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 030005 ENGINEER MARTIN T. CARROLL

DocuSigned by: Martin T. Carroll
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11/19/2019
SIGNATURE DATE

SIG. INVENTORY NO. 14-1021T

11/19/2019
MARTINCARROLL
wkspace: stvinc.com:3400PA:Wo13:Projects:4018442:4018442_0001:60_Discipline Info:Traffic:Signal Designs:141021-2019xxxxg-1.dgn
Trueblj