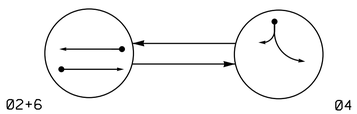
METRIC	PROJECT REFERENCE NO.	SHEET NO.
	R-2413CA	Sig. 2.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

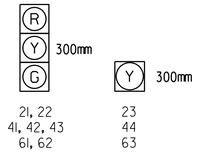
SIGNAL FACE	PHASE Ø2+6	PHASE Ø4	PHASE FLASH
21, 22	G	R	Y
41, 42, 43	R	G	R
61, 62	G	R	Y

TABLE OF OPERATION

SIGNAL FACE	INTERVAL 1	INTERVAL 2
23	ON	OFF
44	OFF	ON
63	ON	OFF

SIGNAL FACE I.D.

All Heads L.E.D.



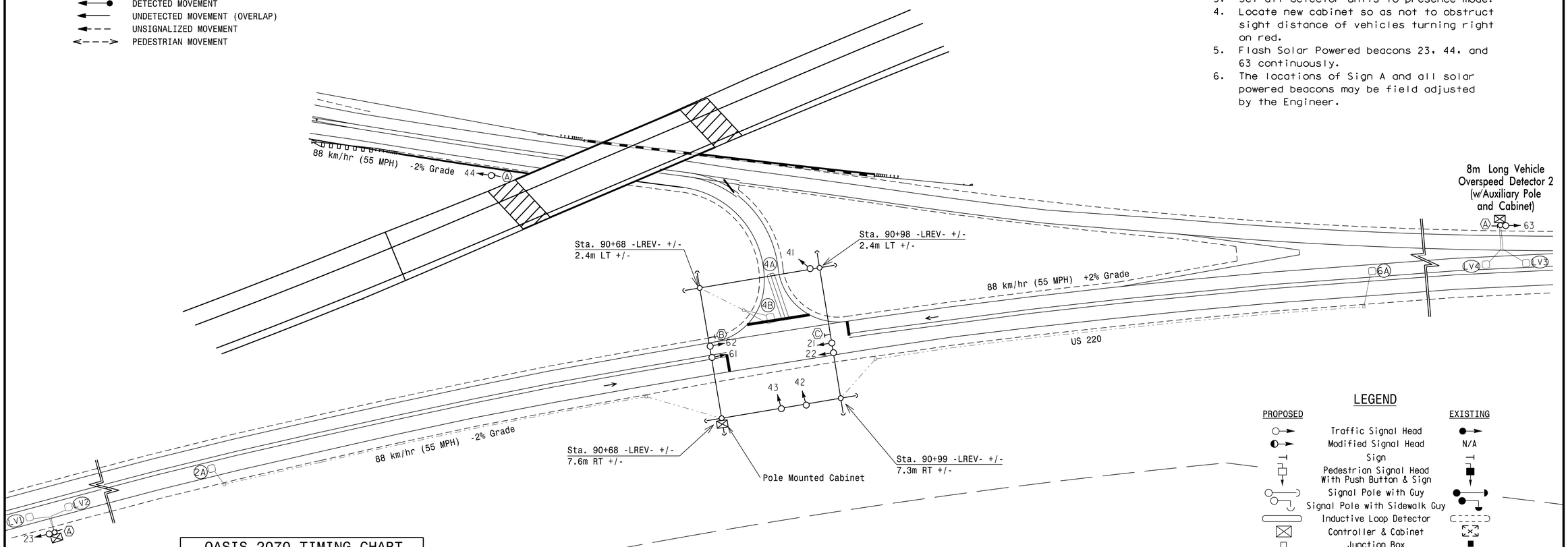
2070 LOOP & DETECTOR INSTALLATION

INDUCTIVE LOOPS					DETECTOR PROGRAMMING						
LOOP	SIZE (m)	TURNS	DISTANCE FROM STOPBAR (m)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
2A	1.8X1.8	5	130	Y	2	Y	Y	-	-	-	-	Y
4A	1.8X12	2-4-2	0	Y	4	Y	Y	-	-	-	-	Y
4B	1.8X1.8	4	0	Y	4	Y	Y	-	-	-	15	Y
6A	1.8X1.8	6	130	Y	6	Y	Y	-	-	-	-	Y

2 Phase
Fully Actuated
(Isolated)

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. Flash Solar Powered beacons 23, 44, and 63 continuously.
6. The locations of Sign A and all solar powered beacons may be field adjusted by the Engineer.



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	
	50mm Underground Conduit	
N/A	Right of Way with Marker	
	Directional Arrow	
A	Signal Ahead Sign (W3-3) w/ Orange Flags and Flashing Solar Powered Beacons	A
B	No Right Turn Sign (R3-1)	B
C	No Left Turn Sign (R3-2)	C

OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6
Min Green 1 *	14	7	14
Extension 1 *	6.0	1.0	6.0
Max Green 1 *	120	30	120
Yellow Clearance	5.4	3.0	5.0
Red Clearance	1.0	1.6	1.1
Walk 1 *	-	-	-
Don't Walk 1	-	-	-
Seconds Per Actuation *	2.5	-	2.5
Max Variable Initial *	46	-	46
Time Before Reduction *	15	-	15
Time To Reduce *	30	-	30
Minimum Gap	3.4	-	3.4
Recall Mode	MIN RECALL	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	YELLOW
Dual Entry	-	-	-
Simultaneous Gap	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.

LONG VEHICLE OVERSPEED DETECTION SYSTEM
LOOP & DETECTION INSTALLATION CHART

INDUCTIVE LOOPS						DETECTOR UNITS								
LOOP NO.	SIZE (m)	TURNS	DIST. FROM STOPBAR (m)	NEW	EXISTING	LVDS-400 SERIAL NO.	LANE NO.	LVDS-400 CARD SERIAL NO.	CHANNEL	NEMA PHASE	TIMING FEATURE	TIMING TIME	PLACE CALL DURING PHASE	INHIBIT DELAY DURING GREEN?
LV1	1.8X1.8	5	313	X	-	①	1	1	1	2*	NONE	- SEC.	ALL	NO
LV2	1.8X1.8	5	305	X	-		1		2		NONE	- SEC.	ALL	NO
LV3	1.8X1.8	5	313	X	-	②	1	2	1	6*	NONE	- SEC.	ALL	NO
LV4	1.8X1.8	5	305	X	-		1		2		NONE	- SEC.	ALL	NO
LVODS THRESHOLD SPEED (MPH)			55							2/6				
LVODS EXTEND TIME			12 SEC.							2/6				

*Phase hold output to controller

This plan supersedes the plan signed and sealed on 8/16/11.

Temporary Signal (TMP Phase I)

Prepared in the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

US 220
at
NC 68

Division 7 Rockingham County NE of Stokesdale

PLAN DATE: January 2015 REVIEWED BY:
PREPARED BY: I. O. Umozurike REVIEWED BY:

SCALE 5 0 10 1:500

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 026486 ENGINEER ROBERT J. TEMBA

DocuSigned by: 1/27/2015
DATE

SIG. INVENTORY NO. 07-0282

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