

5 Phase Fully Actuated (High Point Signal System)

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. Phase 1 and/or phase 5 may be lagged.
- 4. Disconnect existing loops 2C, 2D, 6C, and 6D.
- 5. Set all detector units to presence mode.
- 6. In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- 7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 8. Existing lane control signs may be removed at the direction of the Engineer.
- 9. Pavement markings are existing unless otherwise shown.
- 10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

Combined Through and Right Arrow Sign (R3-6R)

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
1 A	6X60	+5	2-4-2	-	1	Υ	Υ	-	-	15	-	Υ
					6	Υ	Υ	Υ	-	3	-	Υ
2A, 2B	6X6	300	EXIST	-	2	Υ	Υ	-	-	-	-	Υ
2C, 2D	6X6	90	EXIST	-	DISCONNECT						-	
4A	6X60	+5	2-4-2	-	4	Υ	Υ	-	-	-	-	Υ
4B	6X60	+5	2-4-2	-	4	Υ	Υ	-	-	-	-	Υ
4C	6X6	+2	EXIST	-	4	Υ	Υ	Υ	_	10	-	Υ
5A	6X60	+5	2-4-2	_	5	Υ	Υ	-	-	15	-	Υ
					2	Υ	Υ	Υ	-	3	-	Υ
6A,6B	6X6	300	EXIST	-	6	Υ	Υ	-	_	_	-	Υ
6C,6D	6X6	90	EXIST	-	DISCONNECT						-	
8.8	6X60	+5	2-4-2	-	8	Υ	Υ	_	_	-	-	Υ
8B	6X60	+5	2-4-2	-	8	Υ	Υ	-	-	-	-	Υ
S1	6X6	+275	EXIST	-	_	-	_	-	_	_	Υ	Υ

6X6 +275 EXIST

-Add Yield Bar

— Existing Loops

Disconnect

SIGNAL FACE I.D.

All Heads L.E.D.

←⊠

21, 22

41, 42, 43

61, 62

81, 82

<u> </u>								
,		TABLE	OF.	OP	ER	AT	101	1
					PH	4SE		
		SIGNAL FACE	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 4 + 8	FLASH
		11	—	←	F Y	F	┿	∢ Y
02+6		21,22	R	R	G	G	R	Υ
		41,42,43	R	R	R	R	Ŋ	R
		51	-	F	-	F	₩	- Y
		61,62	R	G	R	G	R	Υ
	790	81,82	R	R	R	R	G	R
02+5	Ø4+8							

PHASING DIAGRAM DETECTION LEGEND DETECTED MOVEMENT

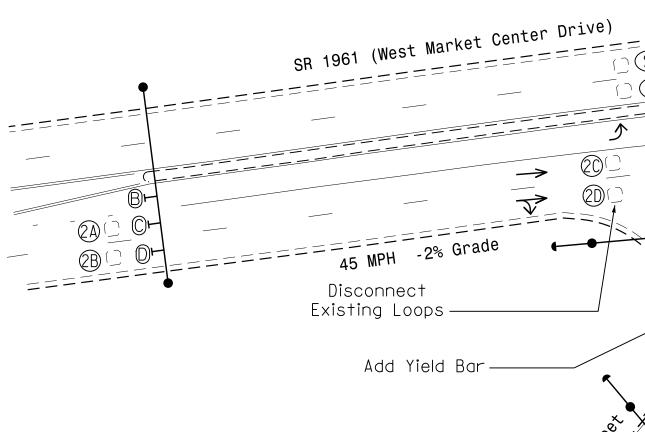
PHASING DIAGRAM

UNDETECTED MOVEMENT (OVERLAP)

UNSIGNALIZED MOVEMENT ← − − > PEDESTRIAN MOVEMENT

01+5

01+6



	OASIS	2070	TIMING	CHAR						
	PHASE									
FEATURE	1	2	4	5	6	8				
Min Green 1 *	7	12	7	7	12	7				
Extension 1 *	2.0	6.0	2.0	2.0	6.0	2.0				
Max Green 1 *	15	60	20	15	60	20				
Yellow Clearance	3.1	4.7	4.1	3.3	4.7	4.0				
Red Clearance	3 . 5	2.5	2.7	3.9	2.5	2.5				
Walk 1 *	-	-	-	-	-	-				
Don't Walk 1	-	-	-	-	-	-				
Seconds Per Actuation *	-	1.5	-	-	1.5	-				
Max Variable Initial *	-	34	-	-	34	-				
Time Before Reduction *	-	15	-	-	15	-				
Time To Reduce *	-	30	-	_	30	_				
Minimum Gap	-	3.0	-	-	3.0	-				
Recall Mode **	-	SOFT RECALL	-	-	SOFT RECALL	-				
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-				
Dual Entry	-	-	ON	-	-	ON				
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.

** May be changed to Min Recall by Time of Day at discretion of City Traffic Engineer.

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	SR 1961 (Wassi	===-				
-	SR 1961 (West Market	Center Drive)			LEGEND	
		- /		PROPOSED	LEGEND	EXISTING
				\bigcirc	Traffic Signal Head	•
				0	Modified Signal Head	N/A
				\dashv	Sign	\dashv
				\downarrow	Pedestrian Signal Head With Push Button & Sign	•
				'	Signal Pole with Guy	•
				S	ignal Pole with Sidewalk Guy	y • • • • • • • • • • • • • • • • • • •
					Inductive Loop Detector	$\subseteq = = \supset$
					Controller & Cabinet	K X Z
					Junction Box	
			-		2-in Underground Conduit	
				N/A	Right of Way	
				\longrightarrow	Directional Arrow	\longrightarrow
				$\langle \overline{A} \rangle$	"YIELD" Sign (R1-2)	(A)
				(A) (B) Le	eft Arrow "ONLY" Sign (R3-5L	
					ough Arrow "ONLY" Sign (R3-	

Signal Upgrade

SR 1961 (W. Market Center Dr.) South Elm Street

Guilford County Division 7 High Point July 2014 REVIEWED BY:

750 N.Greenfleld Pkwy.Garner.NC 27529 PREPARED BY: Jeff Spence REVIEWED BY: REVISIONS INIT. DATE

SIG. INVENTORY NO.

SEAL