## DEFAULT PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

UNSIGNALIZED MOVEMENT

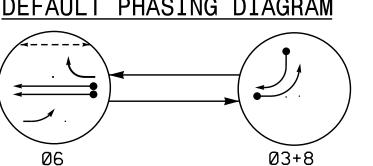
UNDETECTED MOVEMENT (OVERLAP)

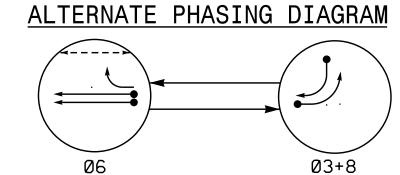
DETECTED MOVEMENT

SIGNAL FACE I.D.

All Heads L.E.D.

← − → PEDESTRIAN MOVEMENT





DEFAULT PHASING									
TABLE OF OPERATION									
PHASE									
SIGNAL FACE	<b>©</b> 60	⊗n + ∞	止しなのエ						
31,32	ц∤≻	<b>↓</b>	<del>*</del>						
61,62	<b>↑</b>	R	Υ						
63	F	R	<del>-Y-</del>						
81,82,83	R		R						
P61,P62	W	DW	DRK						

ALTERNATE PHASING								
TABLE OF OPERATION								
	PHASE							
SIGNAL FACE	<b>0</b> 6	∞ + co	FLAST					
31,32	#	+	<del>-</del> Y					
61.62	$\uparrow$	R	Υ					
63	ᆄ	R	<del>*</del>					
81,82,83	R	<u></u>	R					
P61,P62	W	DW	DRK					

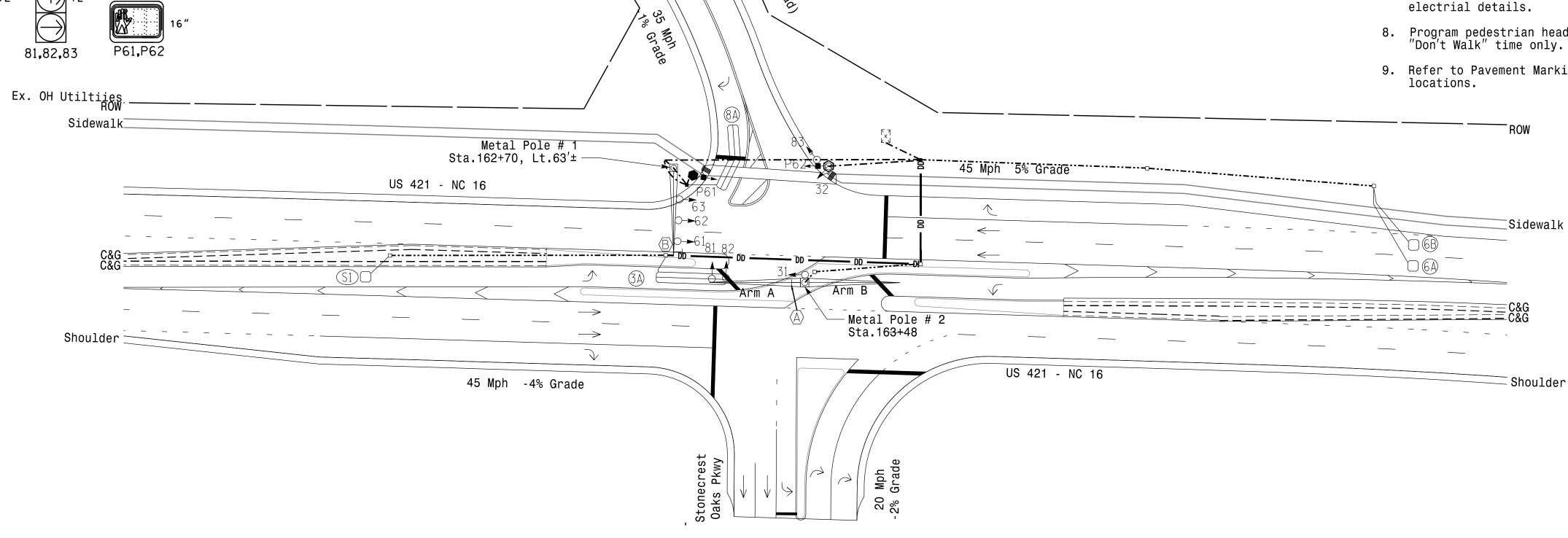
MAXTIME DETECTOR INSTALLATION CHART												
	DET		PF	ROGRAM	MI	NG						
L00P	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
3A	6X40	0	2-4-2	Χ	3	15.0*	-	Χ	-	Χ	-	Χ
6A	6X6	300	4	Χ	6	ı	ı	Χ	Χ	Χ	1	Χ
6B	6X6	300	4	Χ	6	ı	1	Χ	Χ	Χ	ı	Χ
8A	6X40	0	2-4-2	Χ	8	15.0		Χ	ı	Χ	ı	Χ
S1	6X6	200	5	Χ	-	-	-		-		-	Χ
* Disab	le del	ay dur	ing al	te	rnat	e pha	sing	ор	er	at:	Lor	)

## 2 Phase Fully Actuated

## W/ Alternate Phasing Operation Wilkesboro Closed Loop System

## **NOTES**

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Set all detector units to presence mode.
- 4. The Division (Town) Traffic Engineer will determine the hours of use for each phasing plan.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- 7. To provide a leading pedestrian interval on phase 6, program FYA heads 31, 32 and 63 to delay for 3 seconds after the start of the phase 6 walk interval. See electrial details.
- 8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 9. Refer to Pavement Marking Plans for proposed stop bar



MAXTIM	E TIMI	NG CHA	RT					
FEATURE	PHASE							
FEATURE	3	6	8					
Walk *	_	7	-					
Ped Clear *	_	16	_					
Min Green	7	12	7					
Passage *	2.0	6.0	2.0					
Max 1 *	30	60	30					
Yellow Change	3.0	4.1	3.0					
Red Clear	2.3	1.6	2.1					
Added Initial *	_	1.5	-					
Maximum Initial *	_	34	-					
Time Before Reduction *	_	15	_					
Time To Reduce *	_	30	_					
Minimum Gap	_	3.4	_					
Advance Walk	_	**	_					
Non Lock Detector	Х	_	Х					
Vehicle Recall	_	MIN RECALL	-					
Dual Entry	v							

* These values may be field adjusted. Do not adjust Min Gre	en and
Extension times for phases 2 and 6 lower than what is shown	n. Min Green
for all other phases should not be lower than 4 seconds.	

	,									
tension tim	es for p	hases 2	2 and	l 6	lower tha	nr	what is	shown.	Min	Gr
r all other p	hases sl	hould r	not be	lo	wer than	4	seconds	•		
See Note	7									

LEGEND								
PROPOSED		<u>EXISTING</u>						
$\bigcirc$	Traffic Signal Head	<b></b>						
$\dashv$	Sign	$\dashv$						
0	Metal Pole with Mastarm	0						
$\bigcirc$	Type II Signal Pedestal	•						
$\bigotimes$	Type III Signal Pedestal	<b>↔</b>						
	Inductive Loop Detector							
	Controller & Cabinet	×						
	Junction Box							
	2-in Underground Conduit							
DD	Directional Drill	N/A						
	Right of Way							
$\longrightarrow$	Directional Arrow	$\longrightarrow$						
$\langle \Delta \rangle$	No U Turn Sign (R3-4)	N/A						
$\langle \mathbb{B} \rangle$	No Left Turn Sign (R3-2)	N/A						
	Curb Ramp							

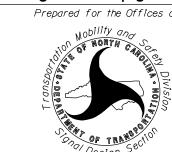


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

Signal Upgrade - Final Design

Prepared for the Offices of:



US 421 - NC 16 at SR 1322 (Winkler Mill Road)

560,100	Divsion 1	1 Wilkes Co	unty	Wilk	kesboro
Section	PLAN DATE:	May 2023	REVIEWED BY:	M. Sty	gles
arner,NC 27529	PREPARED BY:	S.R. Chiluka	REVIEWED BY:	J. M	a
SCALE		REVISIONS		INIT.	DATE

Onol Design Section			<u> </u>						<b>→ ≥0:</b> • • • •		
			PLAN DATE:	PLAN DATE: May 2023 REVIEWED BY:				gles	WGINEER OKT		
750 N.G	Greenfield	d Pkwy,Garner,NC 2	275 <i>2</i> 9	PREPARED BY:	S.R.	Chiluka	REVIEWED BY:	J. N	<i>l</i> a	MAR (	CHILLY.
		SCALE			REVISION	NS		INIT.	DATE	DocuSigned by:	5/24/2023
		0 4	40							SKUMUKA C03E4CB92A7945E	3/24/2023
N										SIGNATURE	DATE
<b>V</b> "	<b>y</b>									SIG. INVENTORY NO.	11-1044



5/4/2023 2:09:05 AM R:\Traffic\Signals\Design schiluka