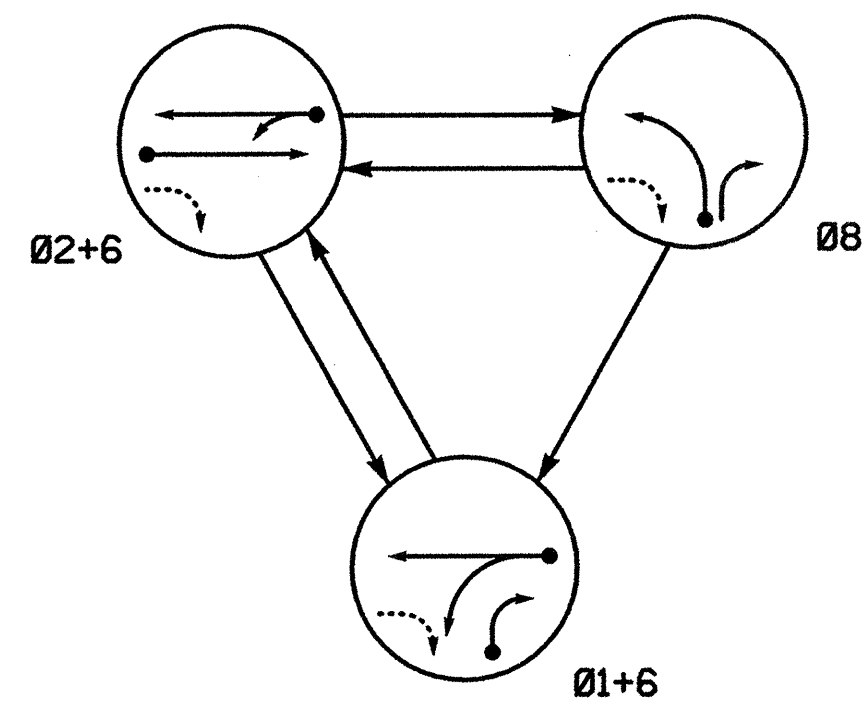


PHASING DIAGRAM

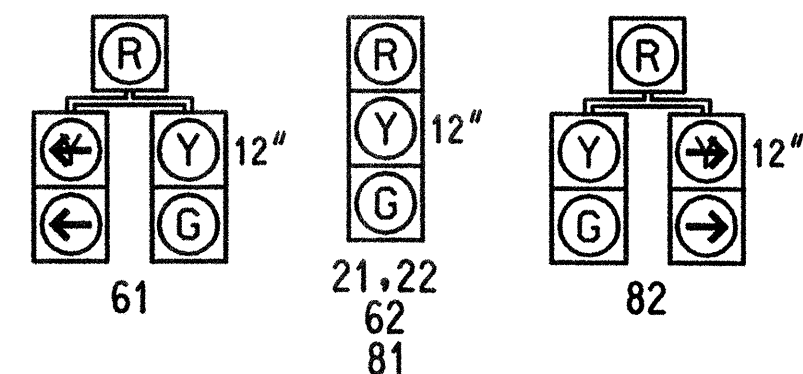


PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE		
	Ø 1+6	Ø 2+6	Ø 8
21,22	R	G	R
61	G	R	Y
62	G	G	R
81	R	R	G
82	R	G	R

Signal Face I.D.



LOOP & DETECTOR UNIT INSTALLATION CHART
NEMA CONTROLLER WITH TS-1 CABINET

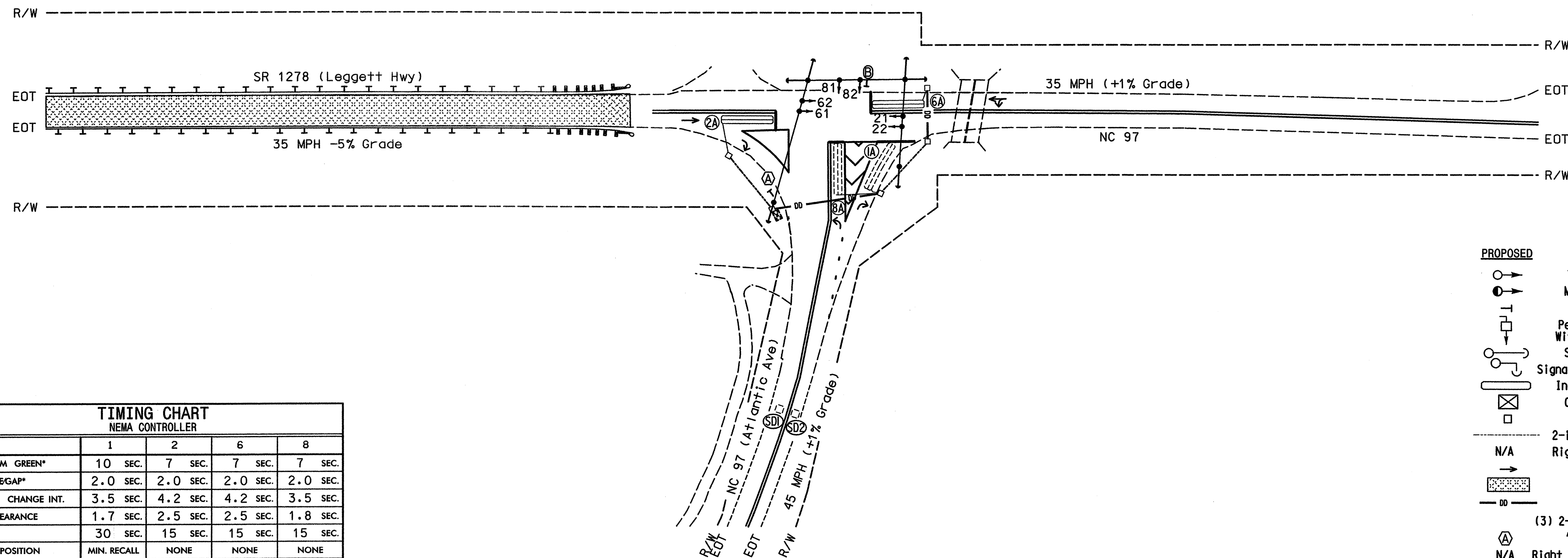
LOOP NO.	SIZE (ft)	TURNS	DIST. FROM STOPBAR (ft)	INDUCTIVE LOOPS			DETECTOR UNITS					
				NEW	EXISTING	UNIT NO.	NEW	EXISTING	NEMA PHASE	TIMING	PLACE CALL DURING PHASE	INHIBIT DELAY DURING GREEN?
1A	6x40	2-4-2	0	X	-	1	X	-	Ø1	DELAY 15 SEC.	ALL	YES
2A	6x40	2-4-2	0	X	-	1	X	-	Ø2	DELAY 2 SEC.	ALL	YES
6A	6x40	2-4-2	0	X	-	2	X	1	Ø1	-	ALL	NO
8A	6x40	2-4-2	0	X	-	3	X	-	Ø8	DELAY 2 SEC.	ALL	YES
SD1	6x6	*	200	-	X	4	-	X	1	System Detector		
SD2	6x6	*	200	-	X	4	-	X	2	System Detector		

*Unable to field verify.

3 Phase Fully Actuated (Rocky Mount Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Do not program signal for late night flashing operation unless otherwise directed by the engineer.
- Set all detector units to presence mode.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- System intersection number 1901.
- Add additional 2-IN conduit for communication cable.



PLAN QUANTITIES	
Pay Item	Feet
Signal Cable	0
Messenger Cable	0
Loop Lead-in Cable	290

LEGEND

- | PROPOSED | EXISTING |
|--|-----------------------------------|
| ○ → Traffic Signal Head | ● → Traffic Signal Head |
| ○ → Modified Signal Head | N/A |
| □ → Pedestrian Signal Head With Push Button & Sign | □ → Pedestrian Signal Head |
| ○ → Signal Pole with Guy | ○ → Signal Pole with Guy |
| ○ → Signal Pole with Sidewalk Guy | ○ → Signal Pole with Sidewalk Guy |
| ⊗ → Inductive Loop Detector | ⊗ → Inductive Loop Detector |
| ⊗ → Controller & Cabinet | ⊗ → Controller & Cabinet |
| □ → Junction Box | □ → Junction Box |
| --- 2-in Underground Conduit | --- 2-in Underground Conduit |
| N/A Right of Way with Marker | △ → Right of Way with Marker |
| → Directional Arrow | → Directional Arrow |
| ▨ → Construction Zone | ▨ → Construction Zone |
| --- Directional Drill | N/A |
| (3) 2-IN Conduit (See Note #6) | |
| △ → "YIELD" Sign (R1-2) | N/A |
| N/A Right Arrow "ONLY" Sign (R3-5R) | ⊙ → Right Arrow "ONLY" Sign |

TIMING CHART NEMA CONTROLLER				
PHASE	1	2	6	8
MINIMUM GREEN*	10 SEC.	7 SEC.	7 SEC.	7 SEC.
PASSAGE GAP*	2.0 SEC.	2.0 SEC.	2.0 SEC.	2.0 SEC.
YELLOW CHANGE INT.	3.5 SEC.	4.2 SEC.	4.2 SEC.	3.5 SEC.
RED CLEARANCE	1.7 SEC.	2.5 SEC.	2.5 SEC.	1.8 SEC.
MAX. I*	30 SEC.	15 SEC.	15 SEC.	15 SEC.
RECALL POSITION	MIN. RECALL	NONE	NONE	NONE
VEH. CALL MEMORY	NONLOCK	NONLOCK	NONLOCK	NONLOCK
WALK*	- SEC.	- SEC.	- SEC.	- SEC.
FLASHING DON'T WALK	- SEC.	- SEC.	- SEC.	- SEC.
VOLUME DENSITY	OFF	OFF	OFF	OFF
ACTUATION B4 ADD*	- VEH.	- VEH.	- VEH.	- VEH.
SEC. PER ACTUATION*	- SEC.	- SEC.	- SEC.	- SEC.
MAX. INITIAL*	- SEC.	- SEC.	- SEC.	- SEC.
TIME B4 REDUCTION*	- SEC.	- SEC.	- SEC.	- SEC.
TIME TO REDUCE*	- SEC.	- SEC.	- SEC.	- SEC.
MINIMUM GAP	- SEC.	- SEC.	- SEC.	- SEC.

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

HNTB HNTB NORTH CAROLINA, P.C.
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Raleigh, North Carolina 27609

Signal Upgrade - Temporary

	SR 1278 (Leggett Hwy)/NC 97		
	at NC 97 (Atlantic Ave)		
Division 04	Edgecombe County	Rocky Mount	
PLAN DATE: February 2005	REVIEWED BY: S.T. Franklin		
PREPARED BY: T.R. Terrell	REVIEWED BY: C.A. Johnson		
REVISIONS	INIT.	DATE	
			DATE: 4-12-05
			SIG. INVENTORY NO. 04-0623(t)