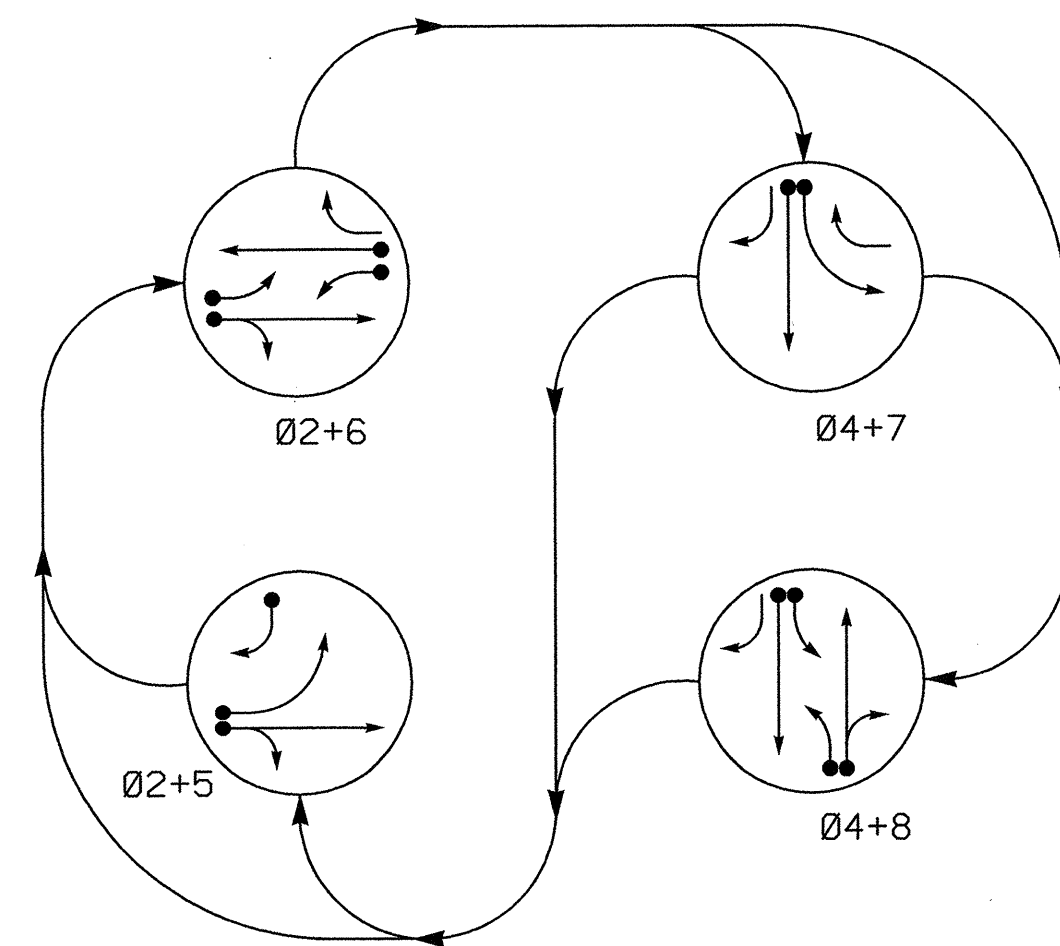


PHASING DIAGRAM

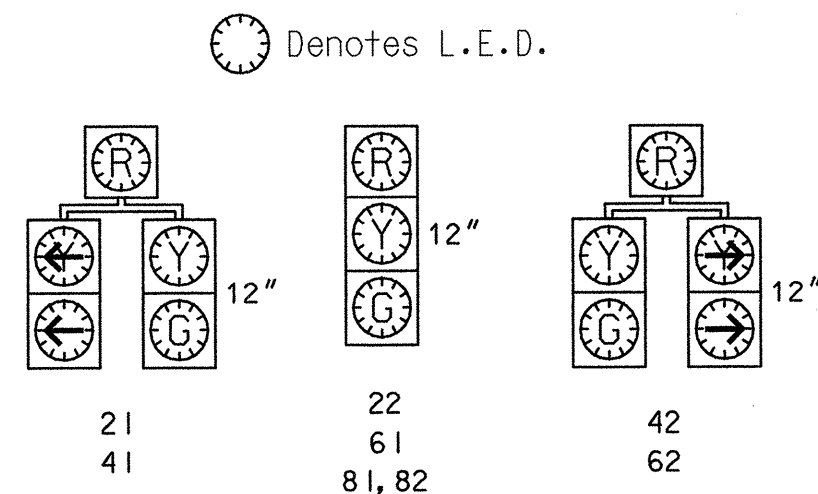


PHASING DIAGRAM DETECTION LEGEND

- ● ← DETECTED MOVEMENT
- ○ ← UNDETECTED MOVEMENT (OVERLAP)
- — ← UNSIGNALIZED MOVEMENT
- - - - ← PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE				FLASH
	Ø2+5	Ø2+6	Ø4+7	Ø4+8	
21	G	R	R	Y	
22	G	G	R	Y	
41	R	R	G	G	R
42	R	R	G	G	R
61	R	G	R	R	Y
62	R	G	R	R	Y
81, 82	R	R	R	G	R

SIGNAL FACE I.D.

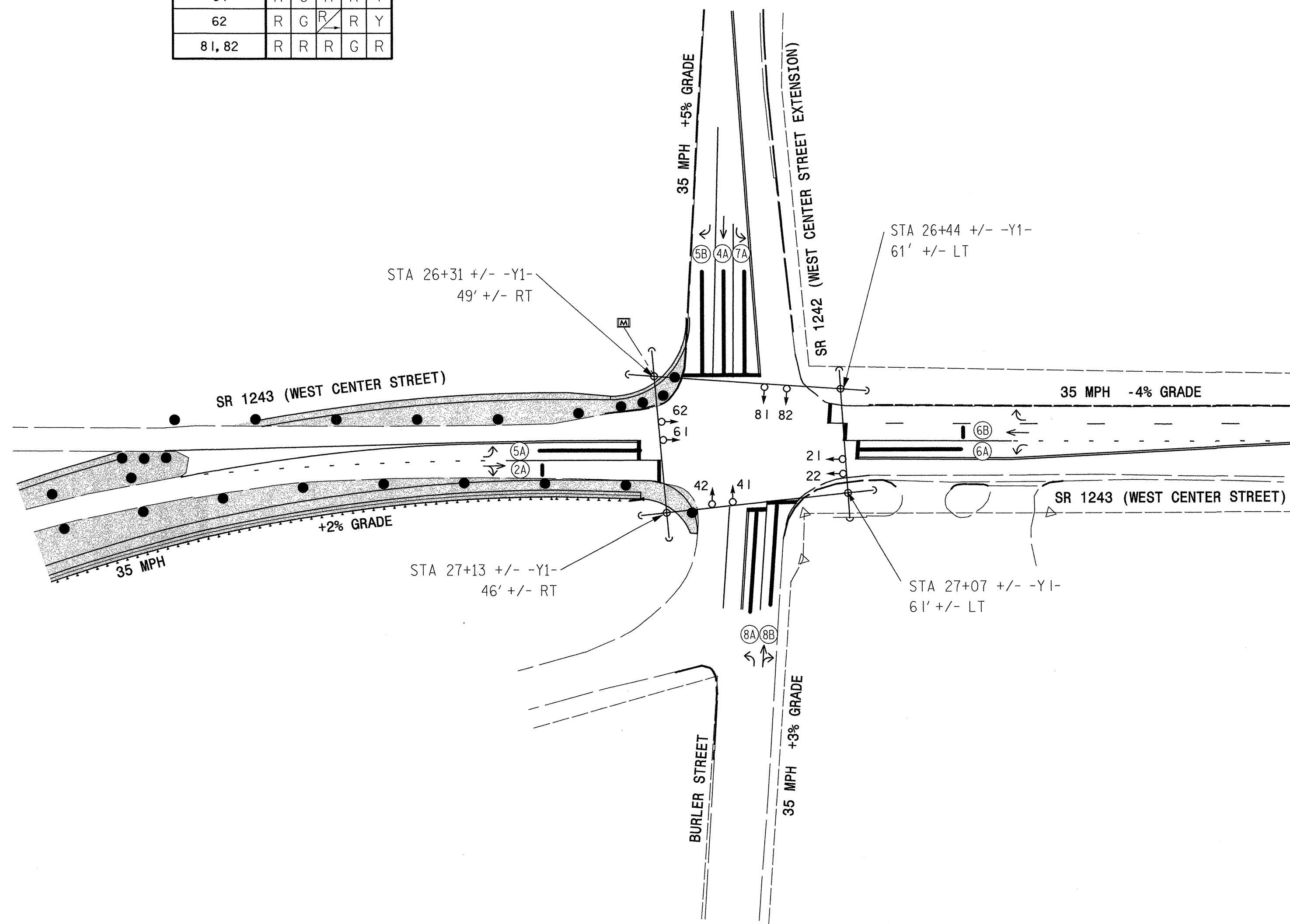


Pay Item	Feet
Signal Cable	770
Messenger Cable	370
Lead-in Cable	0

4 Phase Fully Actuated (Isolated)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Pavement markings are existing.
3. Omit phase 5 during phase 6 on.
4. Omit phase 7 during phase 8 on.
5. Program controller to clear from phase 2+6 to phase 2+5 by progressing through phase 4+8 (see Electrical Details).
6. Set all detector units to presence mode.
7. Incorporate Loop Emulator Detection System for vehicle detection.
8. Provide the Engineer with the Manufacturer approved camera locations and mounting heights to obtain optimum detection zones as shown.



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	—
M	Master Controller & Cabinet	M
⊠	Controller & Cabinet Junction Box	⊠
□	2-in Underground Conduit	□
N/A	Right of Way with Marker	△
→	Directional Arrow	→
→	Pavement Marking Arrow	→
○	Metal Strain Pole	○
N/A	Construction Zone	■
N/A	Construction Zone Drums	●
—	Loop Emulator Detection System	N/A

2070L TIMING CHART

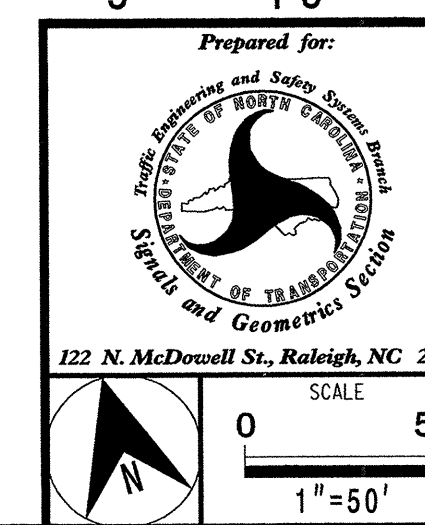
FEATURE	PHASE					
	2	4	5	6	7	8
Min Green 1*	10	7	7	10	7	7
Extension 1*	3.0	1.0	1.0	3.0	1.0	1.0
Max Green 1*	55	45	15	55	20	45
Yellow Clearance	4.0	4.0	4.0	4.0	4.0	4.0
Red Clearance	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1*	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation*	-	-	-	-	-	-
Max Variable Initial*	-	-	-	-	-	-
Time Before Reduction*	-	-	-	-	-	-
Time To Reduction*	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Recall Mode	MIN RECALL	-	-	MIN 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.

2070L DETECTION ZONE INSTALLATION

ZONE	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	DETECTOR PROGRAMMING				
				PHASE	CALLING EXTENSION	FULL TIME DELAY SYSTEM LOOP	STRETCH TIME	DELAY TIME
2A	6 X 6	-	70	2	Y	Y	-	-
4A	6 X 60	-	0	4	Y	Y	-	-
5A	6 X 60	-	0	2	Y	Y	-	-
				5	Y	Y	-	15
5B	6 X 60	-	0	5	Y	Y	-	15
6A	6 X 60	-	0	6	Y	Y	Y	-
6B	6 X 6	-	70	6	Y	Y	-	-
7A	6 X 60	-	0	4	Y	Y	-	-
8A	6 X 60	-	0	7	Y	Y	-	15
				8	Y	Y	-	3
8B	6 X 60	-	0	8	Y	Y	-	10

Signal Upgrade - Temporary Design



REVISIONS	INIT.	DATE

<p>Prepared for: SR 1243 (West Center Street) at SR 1242 (West Center Street Extension) and Burler Street</p> <p>Division 9 Davidson County Lexington</p> <p>PLAN DATE: JUNE 2003 REVIEWED BY: K. Bisby</p> <p>PREPARED BY: F. D. Vess REVIEWED BY:</p>	<p>SEAL</p> <p>21047</p> <p>K. Bisby 7/22/03</p> <p>SIGNATURE DATE</p> <p>SIG. INVENTORY NO. 09-0411 T</p>
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