

PHASING DIAGRAM

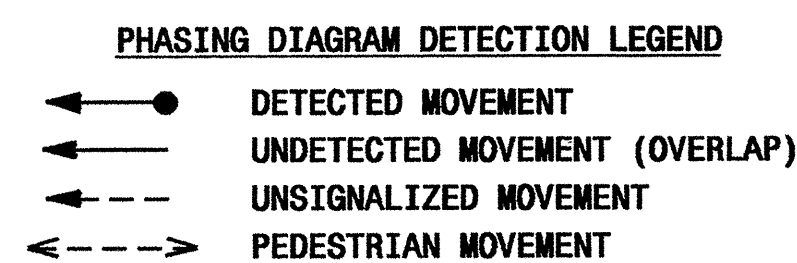
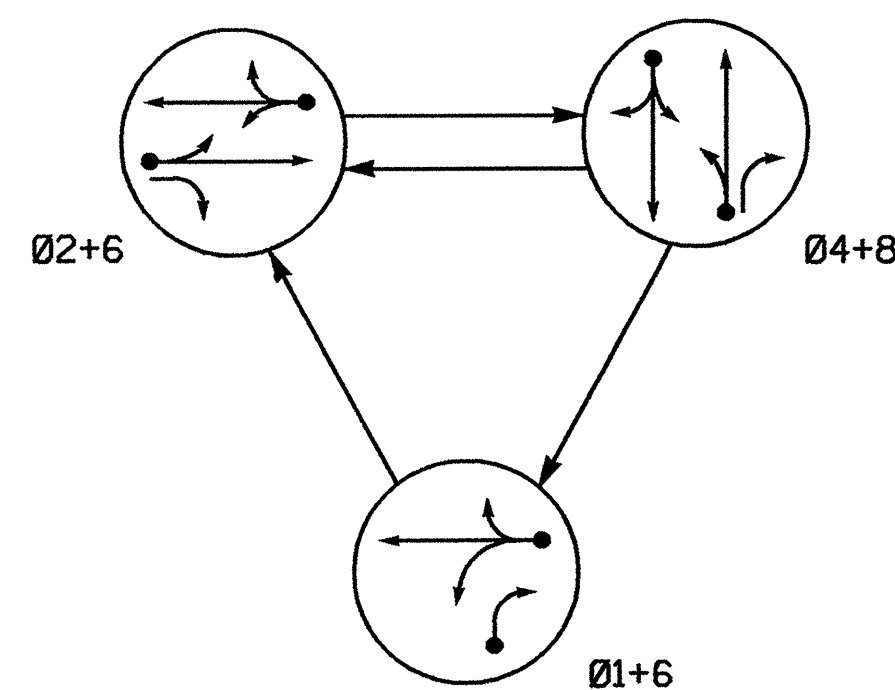
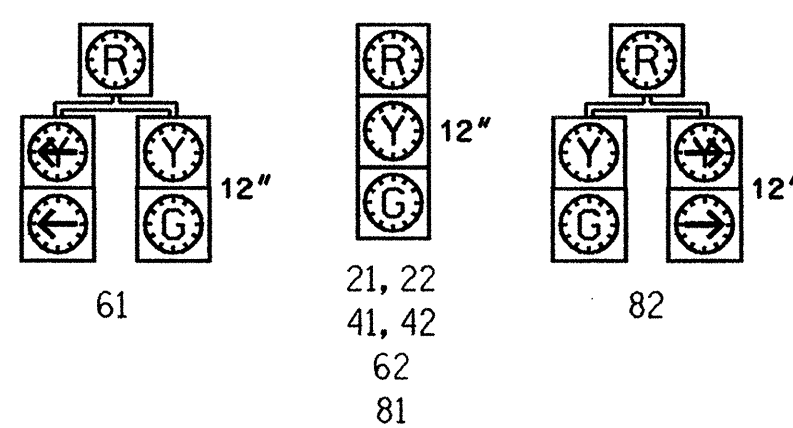


TABLE OF OPERATION

SIGNAL FACE	PHASE				
	Ø 1+6	Ø 2+6	Ø 4+8	Ø 1+6	Ø 4+8
21, 22	R	G	R	Y	
41, 42	R	R	G	R	
61		G	R	Y	
62	G	G	R	Y	
81	R	R	G	R	
82	R	R	G	R	

SIGNAL FACE I.D.

⊙ Denotes L.E.D.



2070L LOOP & DETECTOR INSTALLATION

LOOP	INDUCTIVE LOOPS			DETECTOR PROGRAMMING								
	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
1A	6x15	3	50	Y	1	Y	Y	-	-	-	10	-
1B	6x40	2-4-2	+5	Y	1	Y	Y	-	-	-	15	Y
2A	6x40	2-4-2	0	Y	2	Y	Y	-	-	-	-	-
4A	6x40	2-4-2	0	Y	4	Y	Y	-	-	-	10	-
4B	6x40	2-4-2	0	Y	4	Y	Y	-	-	-	15	-
6A	6x40	2-4-2	0	Y	6	Y	Y	-	-	-	-	-
8A	6x40	2-4-2	+5	Y	8	Y	Y	-	-	-	3	-

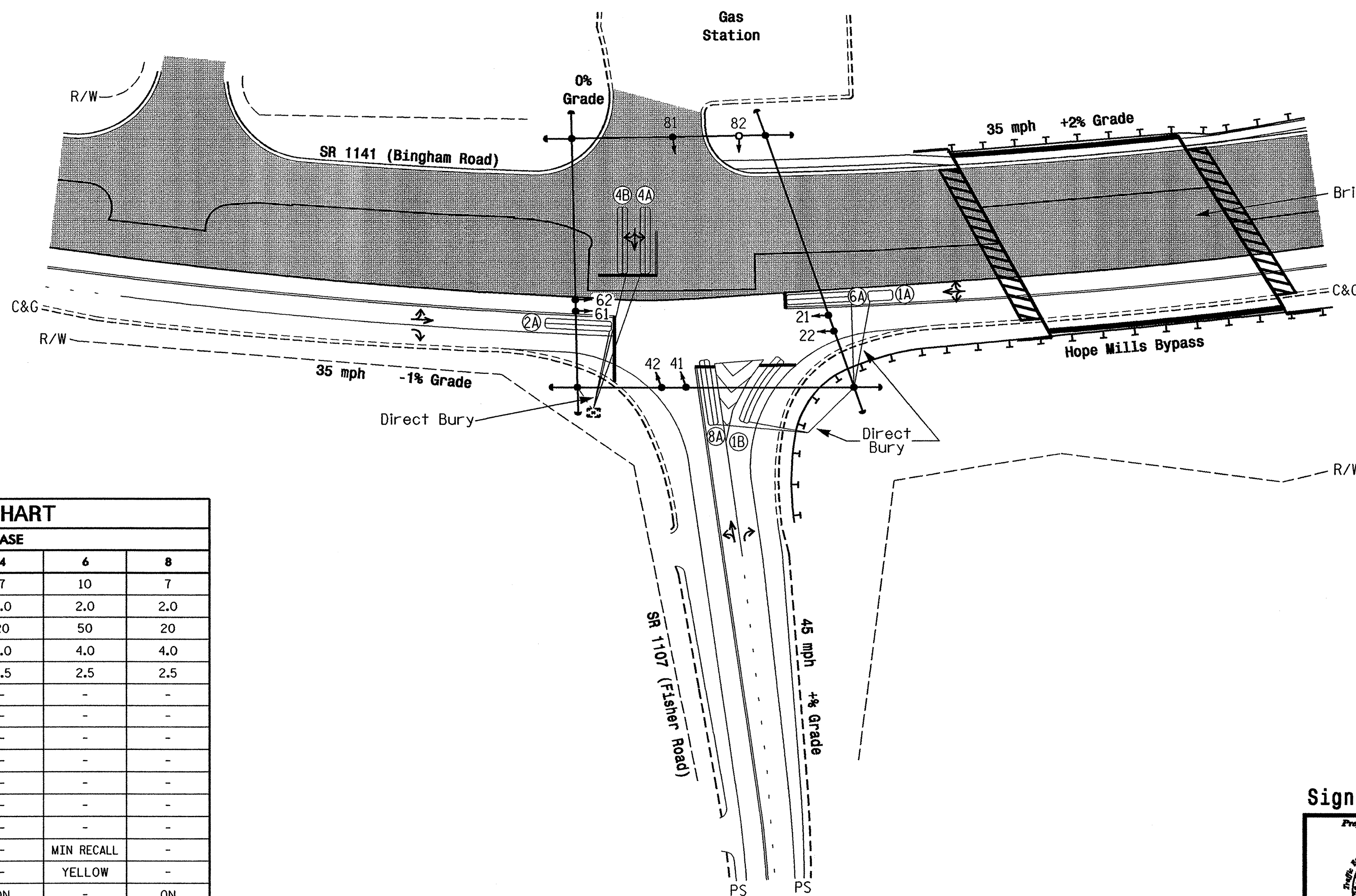
PLAN QUANTITIES

Pay Item	Feet
Signal Cable	0
Messenger Cable	0
Lead-in Cable	820

3 Phase Fully Actuated (Isolated)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Reposition all existing signal heads.
- Omit phase 1 during phase 2 on.
- Program controller to clear from phase 2+6 to phase 1+6 by progressing through phase 4+8 (see Electrical Details).
- Set all detector units to presence mode.



2070L TIMING CHART

FEATURE	PHASE				
	1	2	4	6	8
Min Green 1*	10	10	7	10	7
Extension 1*	2.0	2.0	2.0	2.0	2.0
Max Green 1*	20	50	20	50	20
Yellow Clearance	4.0	4.0	4.0	4.0	4.0
Red Clearance	1.5	2.5	2.5	2.5	2.5
Walk 1*	-	-	-	-	-
Don't Walk 1	-	-	-	-	-
Seconds Per Actuation*	-	-	-	-	-
Max Variable Initial*	-	-	-	-	-
Time Before Reduction*	-	-	-	-	-
Time To Reduce*	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Recall Mode	-	MIN RECALL	-	MIN RECALL	-
Vehicle Call Memory	-	YELLOW	-	YELLOW	-
Dual Entry	-	-	ON	-	ON
Simultaneous Gap	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.

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	--- Right of Way
→ Directional Arrow	→ Directional Arrow
→ Pavement Marking Arrow	→ Pavement Marking Arrow
N/A Guardrail	--- Guardrail
Construction Area	N/A

Signal Upgrade: Phase III Temporary Design 2

**SR 1141 (Bingham Road)/
Hope Mills Bypass
at
SR 1107 (Fisher Road)/Gas Station**

Division 6 Cumberland County Hope Mills

PREPARED BY: P.J. Porter REVIEWED BY: L.A. Elliott

DATE: May 2003

SCALE: 1"=50'

REVISIONS	INIT.	DATE

SIGNATURE	DATE
<i>Timothy J. Williams</i>	10/22/03

SIG. INVENTORY NO. 06-0575T2