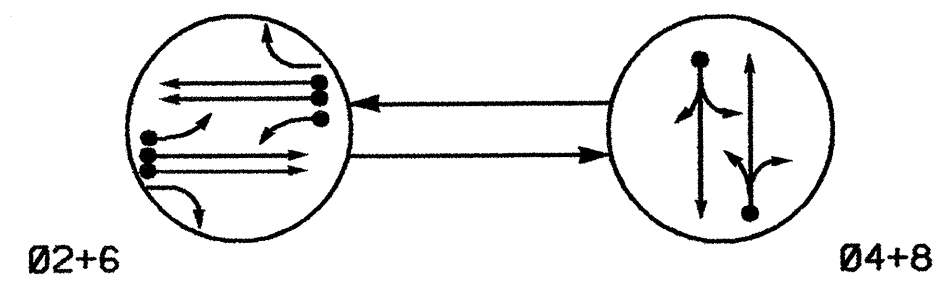


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	02+6	04+8	FLASH
21,22,23	G	R	Y
41,42	R	G	R
61,62,63	G	R	Y
81,82	R	G	R

SIGNAL FACE I.D.

○ Denotes L.E.D.



300mm
21,22,23
41,42
61,62,63
81,82

2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (m)	TURNS	DISTANCE FROM STOPBAR (m)	DETECTOR PROGRAMMING							
				PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
2A	1.8X1.8	5	130	Y	2	Y	Y	-	-	-	Y
2B	1.8X1.8	5	130	Y	2	Y	Y	-	-	-	Y
2C	1.8X1.8	2-4-2	0	Y	2	Y	Y	-	-	-	3
4A	1.8X1.8	2-4-2	0	Y	4	Y	Y	-	-	-	5
4B	1.8X1.8	4	0	Y	4	Y	Y	-	-	-	15
6A	1.8X1.8	6	130	Y	6	Y	Y	-	-	-	Y
6B	1.8X1.8	6	130	Y	6	Y	Y	-	-	-	Y
6C	1.8X1.8	2-4-2	0	Y	6	Y	Y	-	-	-	3
8A	1.8X1.8	2-4-2	0	Y	8	Y	Y	-	-	-	5
8B	1.8X1.8	4	0	Y	8	Y	Y	-	-	-	15

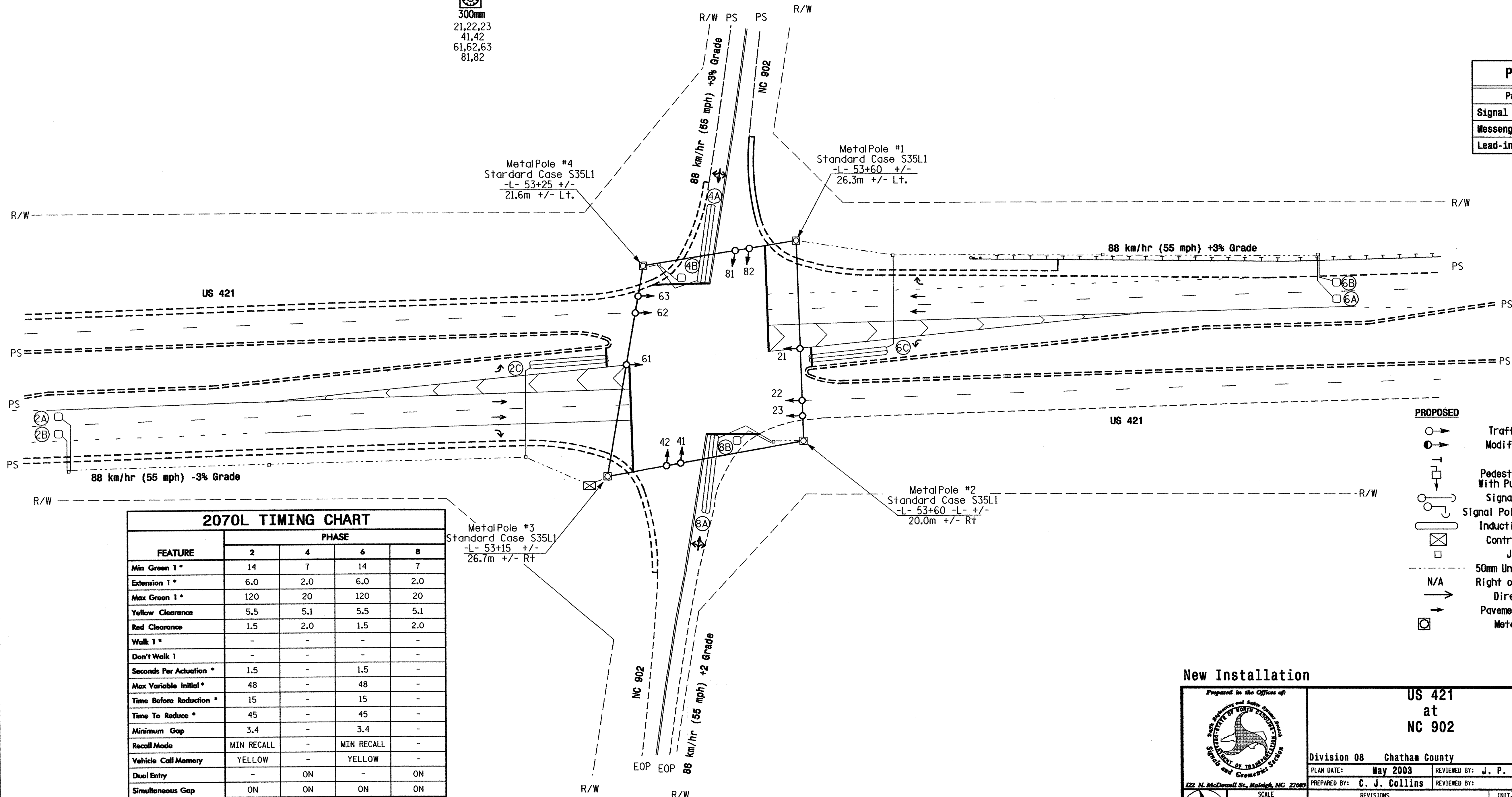
2 Phase Fully Actuated (Isolated)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Set all detector units to presence mode.

PLAN QUANTITIES

Pay Item	Meters
Signal Cable	270
Messenger Cable	180
Lead-in Cable	645



2070L TIMING CHART

FEATURE	PHASE			
	2	4	6	8
Min Green 1 *	14	7	14	7
Extension 1 *	6.0	2.0	6.0	2.0
Max Green 1 *	120	20	120	20
Yellow Clearance	5.5	5.1	5.5	5.1
Red Clearance	1.5	2.0	1.5	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	1.5	-	1.5	-
Max Variable Initial *	48	-	48	-
Time Before Reduction *	15	-	15	-
Time To Reduce *	45	-	45	-
Minimum Gap	3.4	-	3.4	-
Recall Mode	MIN RECALL	-	MIN RECALL	-
Vehicle Call Memory	YELLOW	-	YELLOW	-
Dual Entry	-	ON	-	ON
Simultaneous Gap	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 Traffic Signal Head | ● | EXISTING Traffic Signal Head |
| ○ | PROPOSED Modified Signal Head | N/A | EXISTING Modified Signal Head |
| ⊥ | PROPOSED Sign | ⊥ | EXISTING Sign |
| ⊥ | PROPOSED Pedestrian Signal Head With Push Button & Sign | ⊥ | EXISTING Pedestrian Signal Head With Push Button & Sign |
| ⊥ | PROPOSED Signal Pole with Guy | ⊥ | EXISTING Signal Pole with Guy |
| ⊥ | PROPOSED Signal Pole with Sidewalk Guy | ⊥ | EXISTING Signal Pole with Sidewalk Guy |
| ⊥ | PROPOSED Inductive Loop Detector | ⊥ | EXISTING Inductive Loop Detector |
| ⊥ | PROPOSED Controller & Cabinet | ⊥ | EXISTING Controller & Cabinet |
| ⊥ | PROPOSED Junction Box | ⊥ | EXISTING Junction Box |
| ⊥ | PROPOSED 50mm Underground Conduit | ⊥ | EXISTING 50mm Underground Conduit |
| ⊥ | PROPOSED Right of Way with Marker | ⊥ | EXISTING Right of Way with Marker |
| → | PROPOSED Directional Arrow | → | EXISTING Directional Arrow |
| → | PROPOSED Pavement Marking Arrow | → | EXISTING Pavement Marking Arrow |
| ⊥ | PROPOSED Metal Strain Pole | ⊥ | EXISTING Metal Strain Pole |

New Installation

Prepared in the Office of:
US 421 at NC 902
 Division 08 Chatham County Goldston
 PLAN DATE: May 2003 REVIEWED BY: J. P. Galloway
 PREPARED BY: C. J. Collins REVIEWED BY:
 SCALE: 1:500

 Signature: *Timothy J. Williams* 9/30/03
 Sigs Inventory No. 08-0888