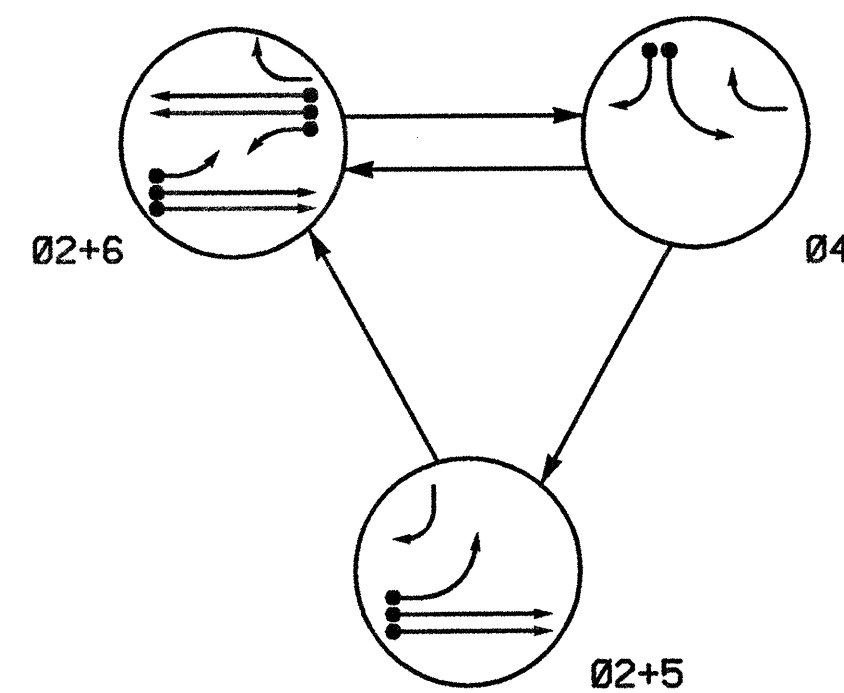


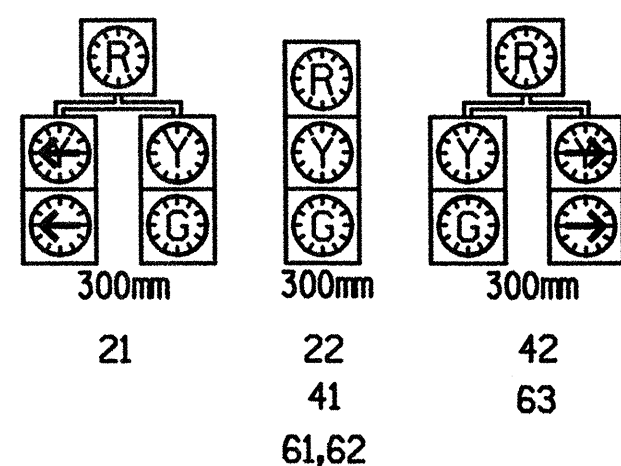
PHASING DIAGRAM



SIGNAL FACE	PHASE			
	Ø 2+5	Ø 2+6	Ø 4	F. LOCAL
21	G	R	Y	
22	G	R	Y	
41	R	R	G	R
42	R	R	G	R
61,62	R	G	R	Y
63	R	G	R	Y

SIGNAL FACE I.D.

⊙ Denotes L.E.D.



PHASING DIAGRAM DETECTION LEGEND

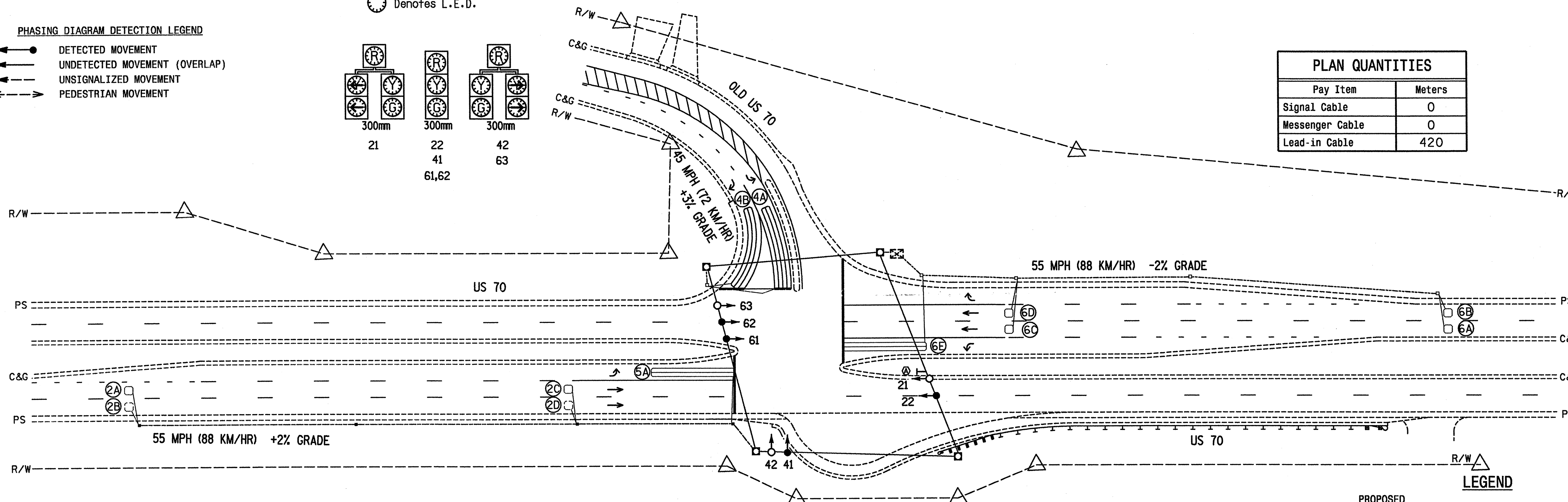
- ← ● → DETECTED MOVEMENT
- ← ○ → UNDETECTED MOVEMENT (OVERLAP)
- ← ○ → UNSIGNALIZED MOVEMENT
- ← ○ → PEDESTRIAN MOVEMENT

LOOP & DETECTOR UNIT INSTALLATION CHART NEMA CONTROLLER WITH TS-2 CABINET											
LOOP NO.	SIZE (m)	TURNS	DIST. FROM STOPBAR (m)	INDUCTIVE LOOPS		DETECTOR UNITS					
				NEW	EXISTING	NEMA PHASE	NEW	EXISTING	TIMING	PLACE CALL DURING PHASE	INHIBIT DELAY DURING GREEN?
2A	1.8X1.8	6	130	X		2	X	EXTEND	2.3 SEC.	ALL	NO
2B	1.8X1.8	6	130	X							
2C	1.8X1.8	5	35	X		2	X	-	- SEC.	ALL	NO
2D	1.8X1.8	5	35	X							
4A	1.8X1.8	2-4-2	0	X		4	X	-	- SEC.	ALL	NO
4B	1.8X1.8	2-4-2	0	X		4	X	DELAY	15 SEC.	ALL	YES
5A	1.8X1.8	2-4-2	0	X		5	X	DELAY	15 SEC.	ALL	YES
6A,6B	1.8X1.8	5	130	X		6	X	EXTEND	2.3 SEC.	ALL	NO
6C,6D	1.8X1.8	4	35	X		6	X	-	- SEC.	ALL	NO
6E	1.8X1.8	2-4-2	0	X		6	X	DELAY	3 SEC.	ALL	NO

3 PHASE ACTUATED (ISOLATED)

- NOTES
- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
 - Reposition existing signal heads numbered 22, 41, 61 and 62.
 - Omit phase 5 during phase 6 on.
 - Set all detector units to presence mode.
 - Do not program signal for late night flashing operation unless otherwise directed by the Engineer.

PLAN QUANTITIES	
Pay Item	Meters
Signal Cable	0
Messenger Cable	0
Lead-in Cable	420



TIMING CHART NEMA CONTROLLER				
PHASE	Ø2	Ø4	Ø5	Ø6
MINIMUM GREEN	14 SEC.	7 SEC.	7 SEC.	14 SEC.
PASSAGE GAP	2.0 SEC.	1.0 SEC.	1.0 SEC.	2.0 SEC.
YELLOW CHANGE INT.	5.4 SEC.	4.7 SEC.	4.0 SEC.	5.4 SEC.
RED CLEARANCE	1.5 SEC.	1.5 SEC.	2.0 SEC.	1.5 SEC.
MAX. I	45 SEC.	20 SEC.	15 SEC.	45 SEC.
RECALL POSITION	MIN. RECALL	NONE	NONE	MIN. RECALL
VEH. CALL MEMORY	LOCK	NONLOCK	NONLOCK	LOCK

- LEGEND
- | | | | |
|-----|---|-----|---|
| ○ → | PROPOSED Traffic Signal Head | ● → | EXISTING Traffic Signal Head |
| ○ → | PROPOSED Modified Signal Head | N/A | EXISTING Modified Signal Head |
| T | PROPOSED Sign | T | 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 |
| N/A | 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 |
| ⊕ | PROPOSED U-Turn "MUST YIELD" Sign (R3-27) | ⊕ | EXISTING U-Turn "MUST YIELD" Sign (R3-27) |

NEW INSTALLATION-FINAL

ARCADIS
G & M of North Carolina, Inc.
WWW.ARCADIS-US.COM
801 Corporate Center Drive, Suite 300
Raleigh, NC 27607-5073
Tel: 919/854-1282 Fax: 919/854-5448

Prepared in the Offices of:
Traffic Engineering and Safety Services
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
Signal and Geometric Section

US 70 AT OLD US 70 (EASTERN INTERSECTION)

DIVISION 12 IREDELL COUNTY E. OF STATESVILLE
PLAN DATE: AUG 2002 REVIEWED BY: X FAN
PREPARED BY: K MILAN REVIEWED BY:

SCALE 1:500

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 21080
ENGINEER
SON A. CRIVELLO
SIGNATURE DATE
SIG. INVENTORY NO. 12-1691