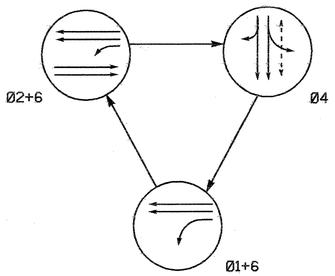
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| U-4736 | SIG 79 |

## PHASING DIAGRAM




**PHASING DIAGRAM DETECTION LEGEND**

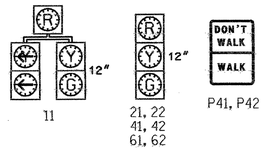
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

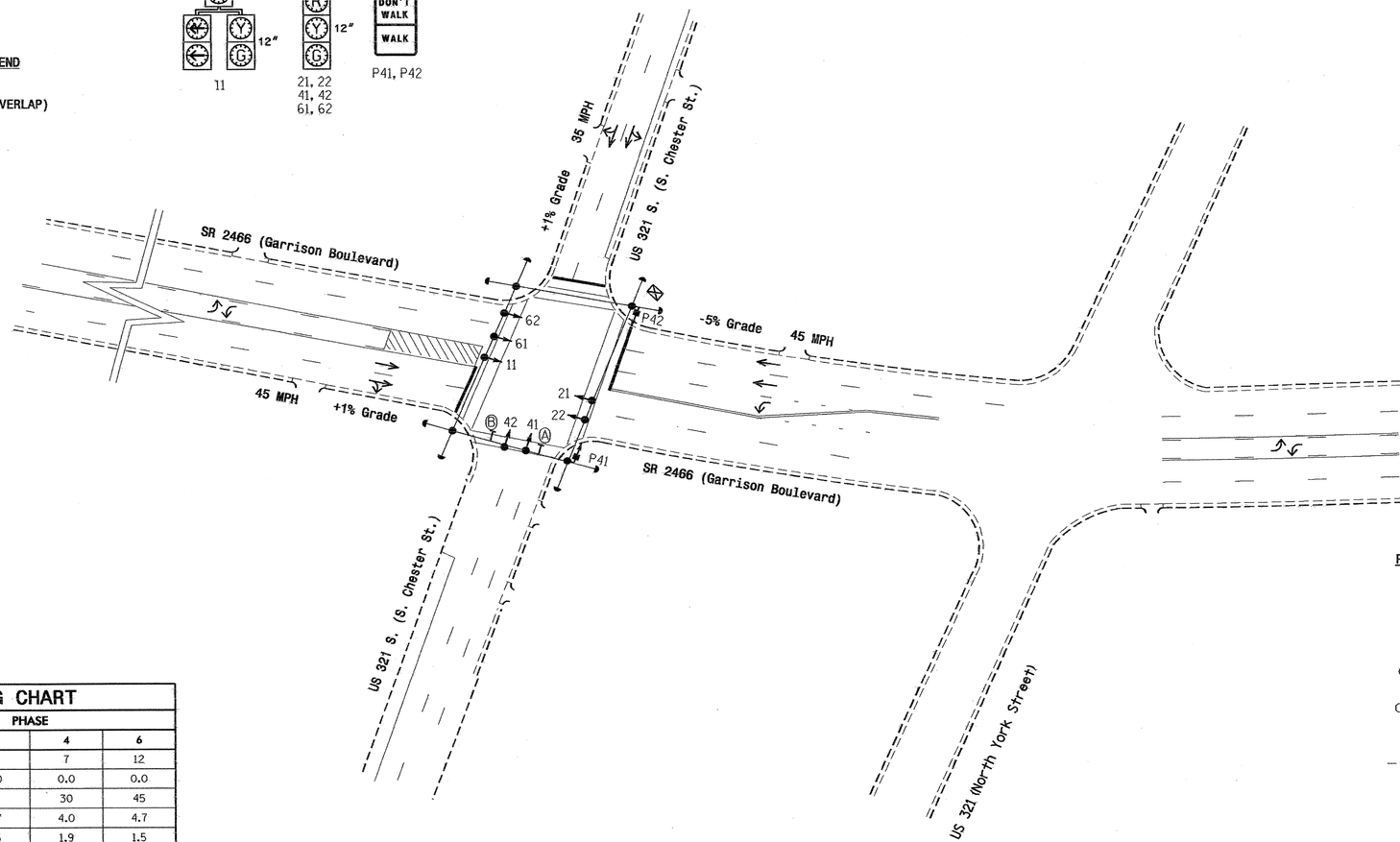
## TABLE OF OPERATION

| SIGNAL FACE | PHASE Ø1+6 | PHASE Ø2+6 | PHASE Ø4 | PHASE FLASH |
|---|---|---|---|---|
| 11 | G | G | R | Y |
| 21, 22 | R | G | R | Y |
| 41, 42 | R | R | G | R |
| 61, 62 | G | G | R | Y |
| P41,P42 | DW | DW | W | DRK |

## SIGNAL FACE I.D.

Denotes L.E.D.




## 2070L TIMING CHART

| FEATURE | PHASE 1 | PHASE 2 | PHASE 4 | PHASE 6 |
|---|---|---|---|---|
| Min Green 1 * | 7 | 12 | 7 | 12 |
| Extension 1 * | 1.0 | 0.0 | 0.0 | 0.0 |
| Max Green 1 * | 15 | 45 | 30 | 45 |
| Yellow Clearance | 4.0 | 4.7 | 4.0 | 4.7 |
| Red Clearance | 1.7 | 1.5 | 1.9 | 1.5 |
| Walk 1 * | - | - | 4 | - |
| Don't Walk 1 | - | - | 15 | - |
| Seconds Per Actuation * | - | - | - | - |
| Max Variable Initial * | - | - | - | - |
| Time Before Reduction * | - | - | - | - |
| Time To Reduce * | - | - | - | - |
| Minimum Gap | - | - | - | - |
| Recall Mode | MAX RECALL | MAX RECALL | MAX/PED RECALL | MAX RECALL |
| Vehicle Call Memory | - | - | - | - |
| Dual Entry | - | - | - | - |
| 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.

3 Phase
Pre-Timed
Gastonia City System

## NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
4. Pavement markings are existing.
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
6. Closed loop system data: Controller Asset 0069.

## 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 | ▭ |
| ⊠ | Controller & Cabinet | ⊠ |
| □ | Junction Box | ■ |
| ·-·-· | 2-in Underground Conduit | ·-·-· |
| N/A | Right of Way | — — — |
| → | Directional Arrow | → |
| → | Pavement Marking Arrow | → |
| Ⓐ | Combined Through and Left Arrow Sign (R3-6L) | Ⓐ |
| Ⓑ | Combined Through and Right Arrow Sign (R3-6R) | Ⓑ |

Signal Upgrade

Prepared in the Offices of:
Traffic Engineering and Safety Systems Branch
North Carolina Department of Transportation
Traffic Engineering Branch
122 N. McDowell St., Raleigh, NC 27603

**US 321 S.(South Chester St.) at SR 2466 (Garrison Blvd.)**

Division 12 Gaston County Gastonia

| | | | |
|---|---|---|---|
| PLAN DATE: | December 2004 | REVIEWED BY: | D.Y. Ishak |
| PREPARED BY: | L. Blount | REVIEWED BY: | |

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SCALE 0 40 1"=40'

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 23020 ENGINEER RICHARD E. MULLINAX
SIGNATURE DATE
SIG. INVENTORY NO. 12-0069

19-MAY-2005 14:43
M:\traffic\sig\sig_dsn\projects\u-4736\signal plans\t2-0069\t20069_sig_dsn_20041210.dgn
ZMLIN18