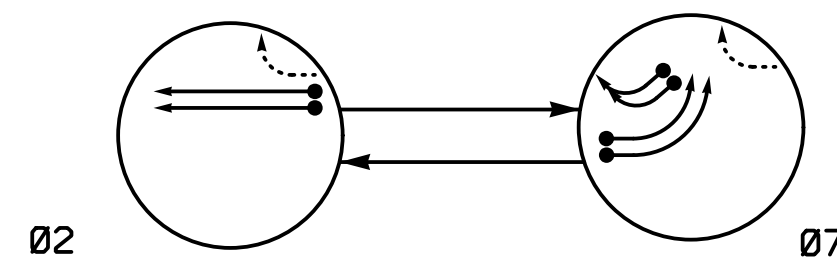


PHASING DIAGRAM



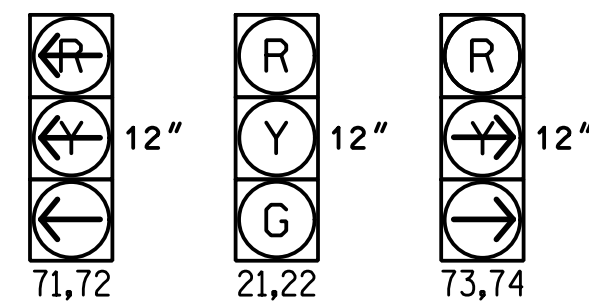
PHASING DIAGRAM DETECTION LEGEND

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

| SIGNAL FACE | PHASE | | |
|-------------|-------|----|---------|
| | 02 | 07 | F LIGHT |
| 21,22 | G | R | Y |
| 71,72 | R | - | R |
| 73,74 | R | - | R |

SIGNAL FACE I.D.

All Heads L.E.D.

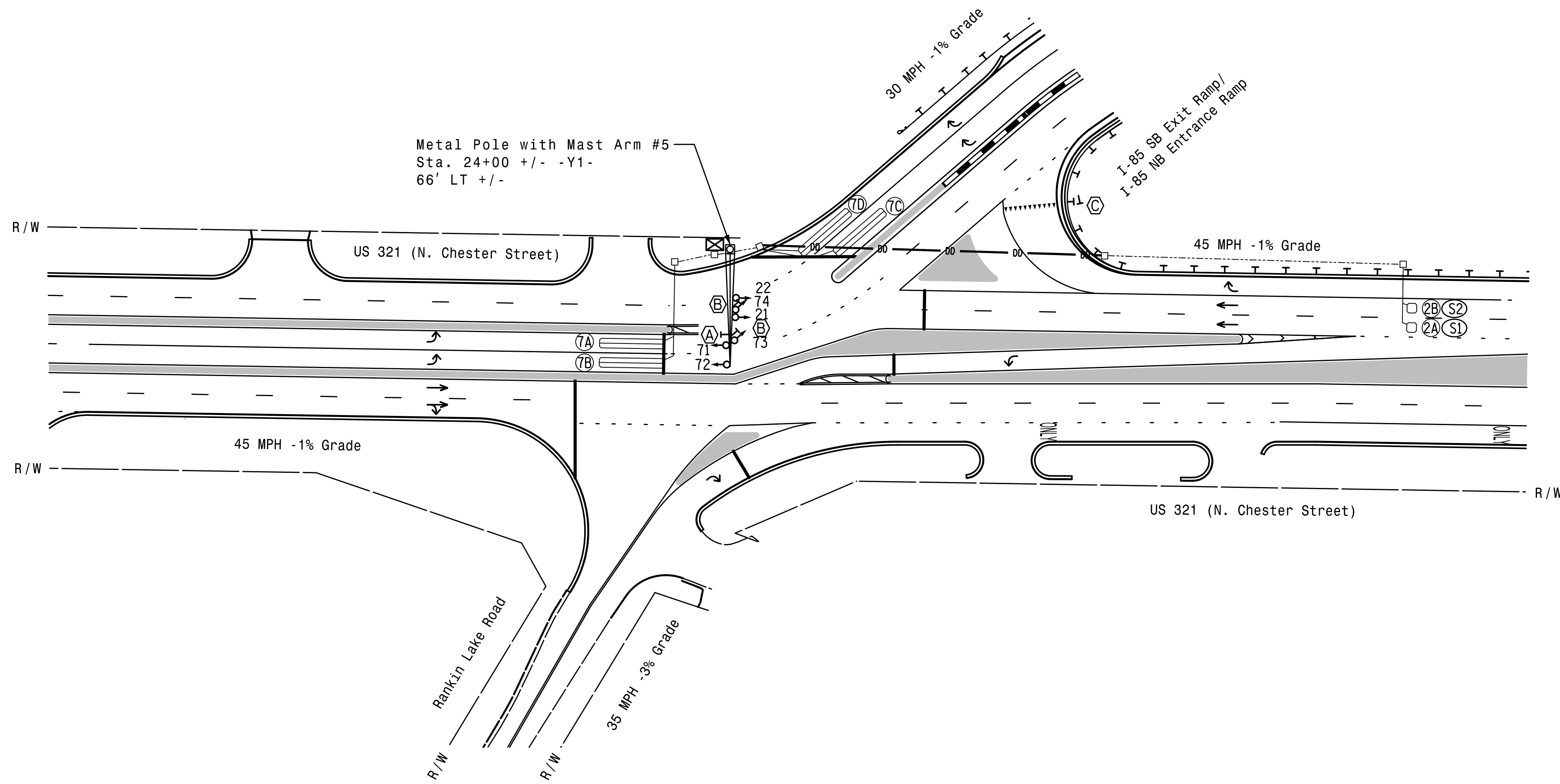


| OASIS 2070 LOOP & DETECTOR INSTALLATION CHART | | | | | | | | | | | | |
|---|-----------|----------------------------|-------|----------|----------------------|---------|-----------|-----------------|--------------|------------|-------------|----------|
| INDUCTIVE LOOPS | | | | | DETECTOR PROGRAMMING | | | | | | | |
| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | PHASE | CALLING | EXTENSION | FULL TIME DELAY | STRETCH TIME | DELAY TIME | SYSTEM LOOP | NEW CARD |
| 2A/S1 | 6X6 | 300 | 5 | Y | 2 | Y | Y | - | - | - | Y | Y |
| 2B/S2 | 6X6 | 300 | 5 | Y | 2 | Y | Y | - | - | - | Y | Y |
| 7A | 6X40 | 0 | 2-4-2 | Y | 7 | Y | Y | - | - | - | - | Y |
| 7B | 6X40 | 0 | 2-4-2 | Y | 7 | Y | Y | - | - | - | - | Y |
| 7C | 6X40 | 0 | 2-4-2 | Y | 7 | Y | Y | - | - | 15 | - | Y |
| 7D | 6X40 | 0 | 2-4-2 | Y | 7 | Y | Y | - | - | 15 | - | Y |

2 Phase Fully Actuated (Gastonia City Signal System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the engineer.
3. Set all detector units to presence mode.
4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
6. Signal System data: Controller Asset #1803



LEGEND

- | PROPOSED | EXISTING |
|--|--|
| ○ → Traffic Signal Head | ● → N/A |
| ● → Modified Signal Head | — Sign |
| ⊥ Pedestrian Signal Head With Push Button & Sign | ⊥ Sign |
| ○ ⊥ Signal Pole with Guy | ● ⊥ Signal Pole with Sidewalk Guy |
| ⊠ Inductive Loop Detector | ⊠ Inductive Loop Detector |
| ⊠ Controller & Cabinet | ⊠ Junction Box |
| ⊠ 2-in Underground Conduit | ⊠ 2-in Underground Conduit |
| N/A Right of Way | — Right of Way |
| → Directional Arrow | → Directional Arrow |
| ○ Metal Pole with Mastarm | ○ Metal Pole with Mastarm |
| N/A Guardrail | — Guardrail |
| — Directional Drill | N/A |
| (A) "U-TURN YIELD TO RIGHT TURN" Sign (R10-16) | (A) "U-TURN YIELD TO RIGHT TURN" Sign (R10-16) |
| (B) Right Arrow "ONLY" Sign (R3-5R) | (B) Right Arrow "ONLY" Sign (R3-5R) |
| (C) "YIELD" Sign (R1-2) | (C) "YIELD" Sign (R1-2) |

OASIS 2070 TIMING CHART

| FEATURE | PHASE | |
|-------------------------|------------|-----|
| | 2 | 7 |
| Min Green 1 * | 12 | 7 |
| Extension 1 * | 6.0 | 2.0 |
| Max Green 1 * | 90 | 25 |
| Yellow Clearance | 4.6 | 3.0 |
| Red Clearance | 1.6 | 3.9 |
| Red Revert | 2.0 | 2.0 |
| Walk 1 * | - | - |
| Don't Walk 1 | - | - |
| Seconds Per Actuation * | 1.5 | - |
| Max Variable Initial * | 34 | - |
| Time Before Reduction * | 15 | - |
| Time To Reduce * | 30 | - |
| Minimum Gap | 3.0 | - |
| Recall Mode | MIN RECALL | - |
| Vehicle Call Memory | YELLOW | - |
| Dual Entry | - | - |
| Simultaneous Gap | ON | ON |

* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 2 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

New Installation

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

| | | | |
|--------------|--|---|--|
| | US 321 (N. Chester Street) at I-85 SB Exit Ramp/ I-85 NB Entrance Ramp | | |
| | Division 12 Gaston Co. Gastonia | PLAN DATE: September 2016 REVIEWED BY: T.R. Terrell | |
| SCALE 1"=50' | REVISIONS | INITI. DATE | Documented by: <i>Natasha R. Simmons</i> 11/8/2016 SIGNATURE DATE SIG. INVENTORY NO. 12-1803 |

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