

PHASING DIAGRAM

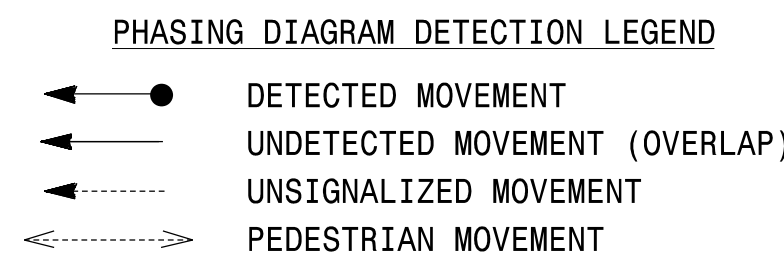
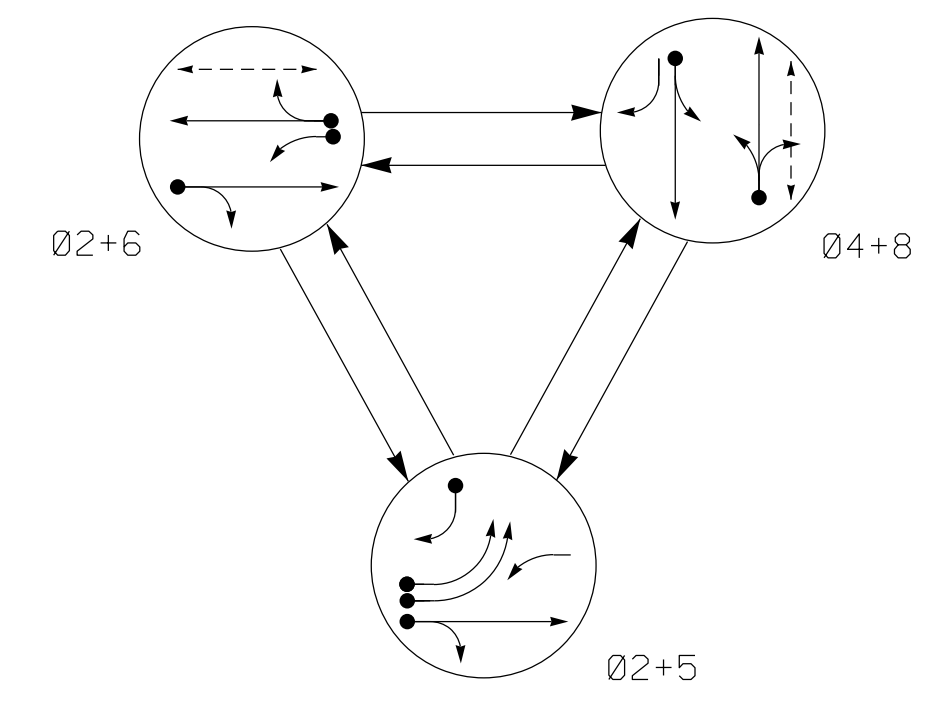
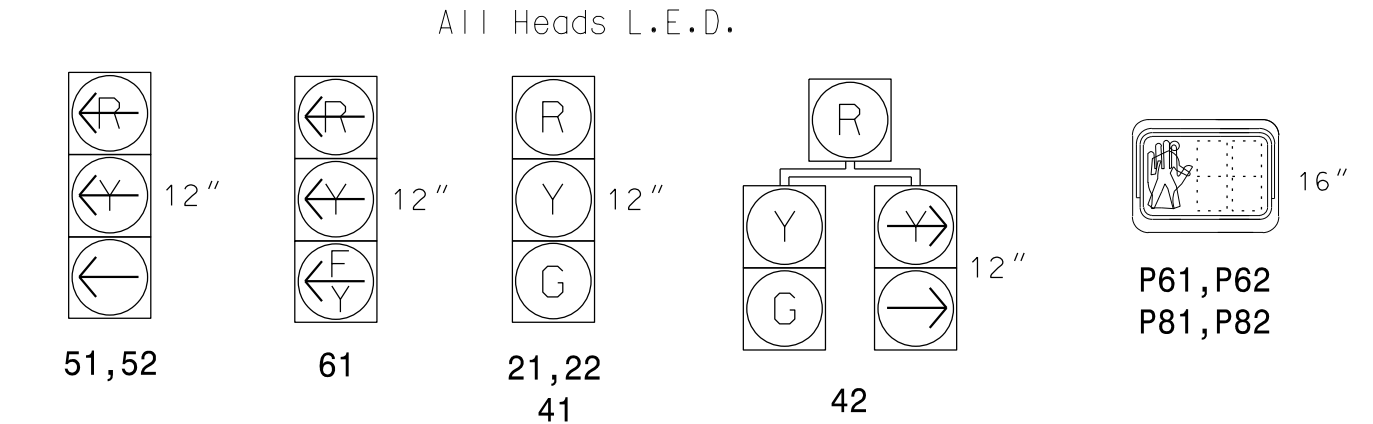


TABLE OF OPERATION

| SIGNAL FACE | PHASE | | | |
|-------------|-------|------|------|-------------|
| | Ø2+5 | Ø2+6 | Ø4+8 | F L D B H S |
| 21,22 | G | G | R | Y |
| 41 | R | R | G | R |
| 42 | R | R | G | R |
| 51,52 | ← | ← | ← | ← |
| 61 | ← | ← | ← | ← |
| 62,63 | R | G | R | Y |
| 81,82 | R | R | G | R |
| P61,P62 | DW | W | DW | DRK |
| P81,P82 | DW | DW | W | DRK |

SIGNAL FACE I.D.



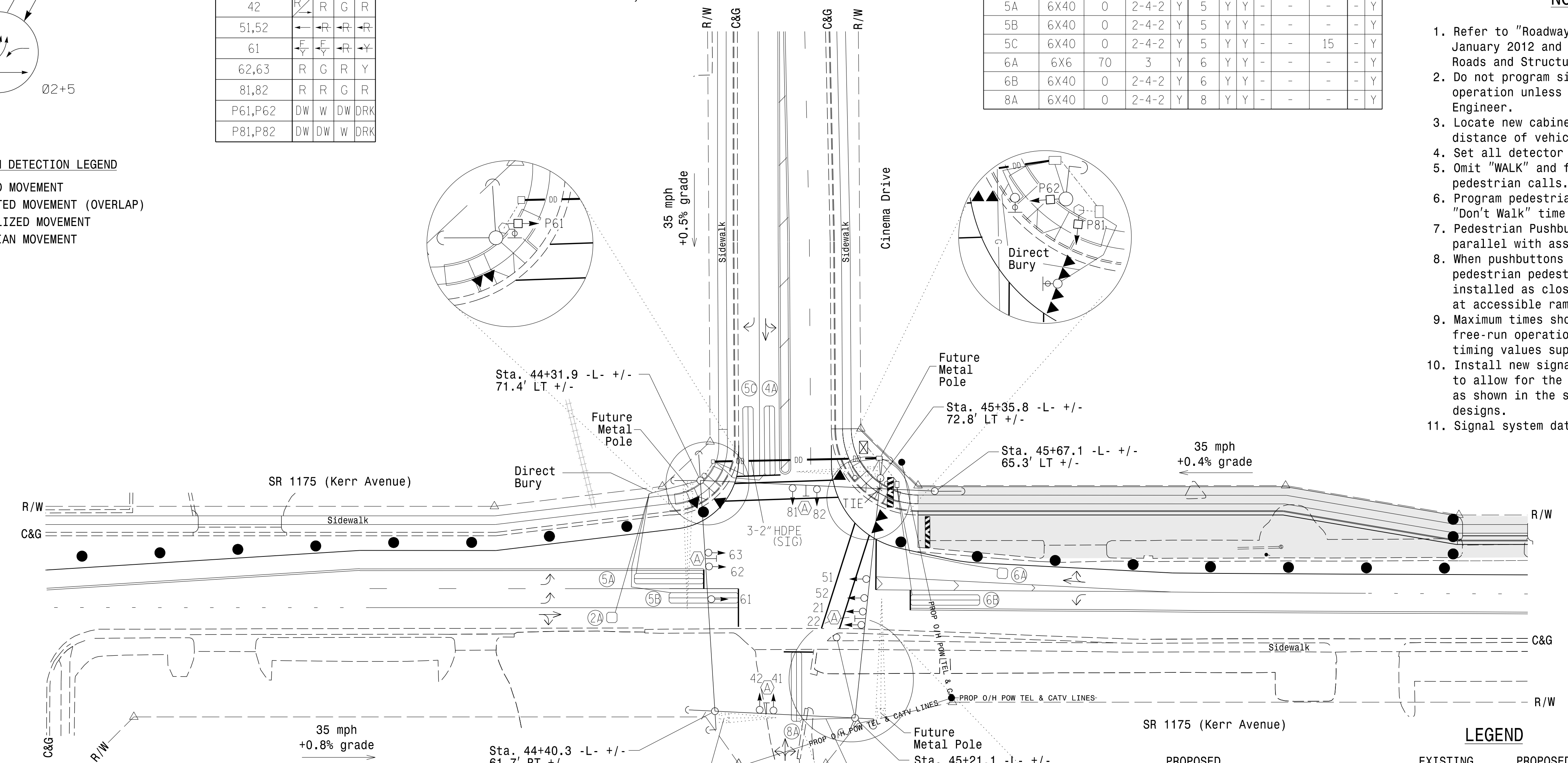
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | DETECTOR PROGRAMMING | | | | STRETCH TIME | DELAY TIME | SYSTEM LOOP | NEW CARD |
|------|-----------|----------------------------|-------|----------|----------------------|---------|-----------|-----------------|--------------|------------|-------------|----------|
| | | | | | PHASE | CALLING | EXTENSION | FULL TIME DELAY | | | | |
| 2A | 6X6 | 70 | 5 | Y | 2 | Y | Y | - | - | - | - | Y |
| 4A | 6X40 | 0 | 2-4-2 | Y | 4 | Y | Y | - | - | - | - | Y |
| 5A | 6X40 | 0 | 2-4-2 | Y | 5 | Y | Y | - | - | - | - | Y |
| 5B | 6X40 | 0 | 2-4-2 | Y | 5 | Y | Y | - | - | - | - | Y |
| 5C | 6X40 | 0 | 2-4-2 | Y | 5 | Y | Y | - | 15 | - | - | Y |
| 6A | 6X6 | 70 | 3 | Y | 6 | Y | Y | - | - | - | - | Y |
| 6B | 6X40 | 0 | 2-4-2 | Y | 6 | Y | Y | - | - | - | - | Y |
| 8A | 6X40 | 0 | 2-4-2 | Y | 8 | Y | Y | - | - | - | - | Y |

3 Phase Fully Actuated (Wilmington Signal System)

NOTES

- Refer to "Roadway Standard Specifications NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pedestrian Pushbutton and sign shall be mounted parallel with associated crosswalk.
- When pushbuttons are mounted on metal pole or pedestrian pedestal, the pole or pedestal shall be installed as close as possible to the back of curb at accessible ramps to minimize reach range.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Install new signal heads with enough signal cable to allow for the repositioning of the signal heads as shown in the subsequent temporary signal designs.
- Signal system data: Controller Asset #1082.



OASIS 2070 TIMING CHART

| FEATURE | PHASE | | | | |
|-------------------------|-------------|-----|-----|-------------|-----|
| | 2 | 4 | 6 | 8 | |
| Min Green 1 * | 10 | 7 | 7 | 10 | 7 |
| Extension 1 * | 3.0 | 2.0 | 2.0 | 3.0 | 2.0 |
| Max Green 1 * | 60 | 35 | 20 | 60 | 35 |
| Yellow Clearance | 3.8 | 3.8 | 3.0 | 3.8 | 3.2 |
| Red Clearance | 2.0 | 2.3 | 2.8 | 2.0 | 2.5 |
| Red Revert | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Walk 1 * | - | - | - | 7 | 7 |
| Don't Walk 1 | - | - | - | 14 | 16 |
| Seconds Per Actuation * | - | - | - | - | - |
| Max Variable Initial * | - | - | - | - | - |
| Time Before Reduction * | - | - | - | - | - |
| Time To Reduce * | - | - | - | - | - |
| Minimum Gap | - | - | - | - | - |
| Recall Mode | SOFT RECALL | - | - | SOFT 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 | PROPOSED | EXISTING |
|----------------------------|----------|---|----------|
| — 2-in Underground Conduit | — | ○ Traffic Signal Head | ● |
| → Directional Drill | N/A | □ Sign | ■ |
| N/A Directional Arrow | → | □ Pedestrian Signal Head | ■ |
| N/A UG Telephone Line | — | □ Push Button & Sign | ■ |
| N/A UG Gas Line | — | ○ Temporary Pedestrian Post w/ Push Button & Sign | ● |
| N/A Drainage Pipe | — | ○ Type II Signal Pedestal | ● |
| N/A Right of Way | — | ○ Signal Pole with Guy | ● |
| Ⓐ Street Name Sign | Ⓐ | ○ Signal Pole with Sidewalk Guy | ● |
| Construction Zone | ■ | □ Inductive Loop Detector | □ |
| Construction Zone Drums | ● | □ Controller & Cabinet | □ |
| Construction Zone Cones | ▲ | □ Junction Box | □ |
| Construction Barricade | ▨ | □ Oversize Junction Box | □ |

Signal Upgrade - Temporary Signal 1 (TMP Phase II)

Prepared for the Offices of:

SR 1175 (Kerr Avenue) at Cinema Drive/ Shopping Center Driveway

Division 03 New Hanover County Wilmington

PLAN DATE: June 2014 REVIEWED BY: LM MOON

PREPARED BY: IW BERDEAU REVIEWED BY: MB TOTH

REVISIONS: _____ INIT. DATE

1"=40'

12/19/2014

Melissa B. Toth

SIG. INVENTORY NO. 03-108211

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NGBEES #F-0326

13-JUL-2015 10:18 D:\Temp\proj\108211\03\108211.dgn SR 1175 (Kerr Avenue) at Cinema Drive/ Shopping Center Driveway