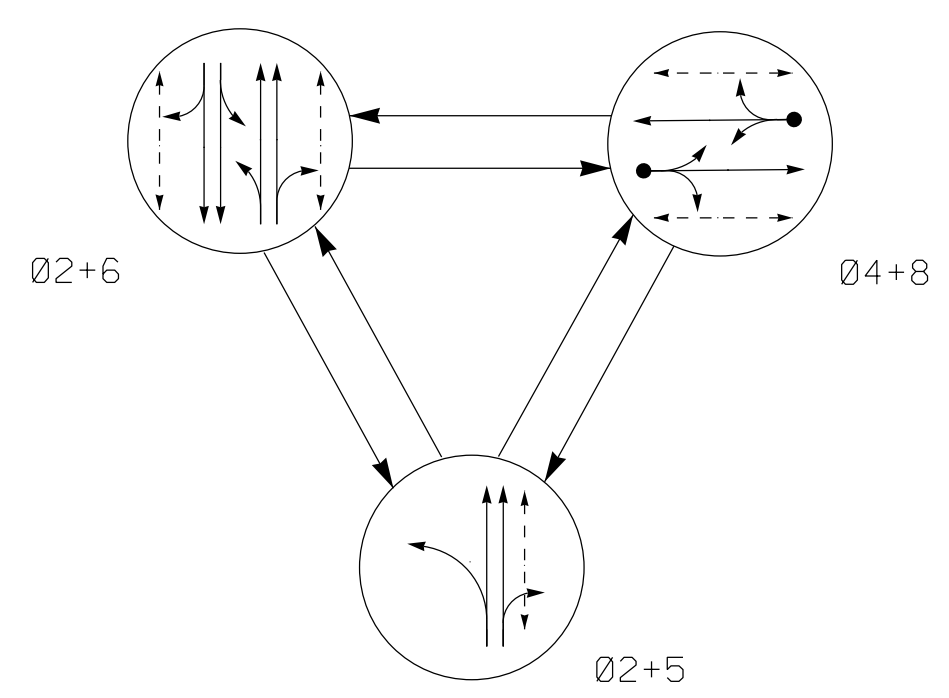


PHASING DIAGRAM



USE RED REVERT FOR PHASE 2

PHASING DIAGRAM DETECTION LEGEND

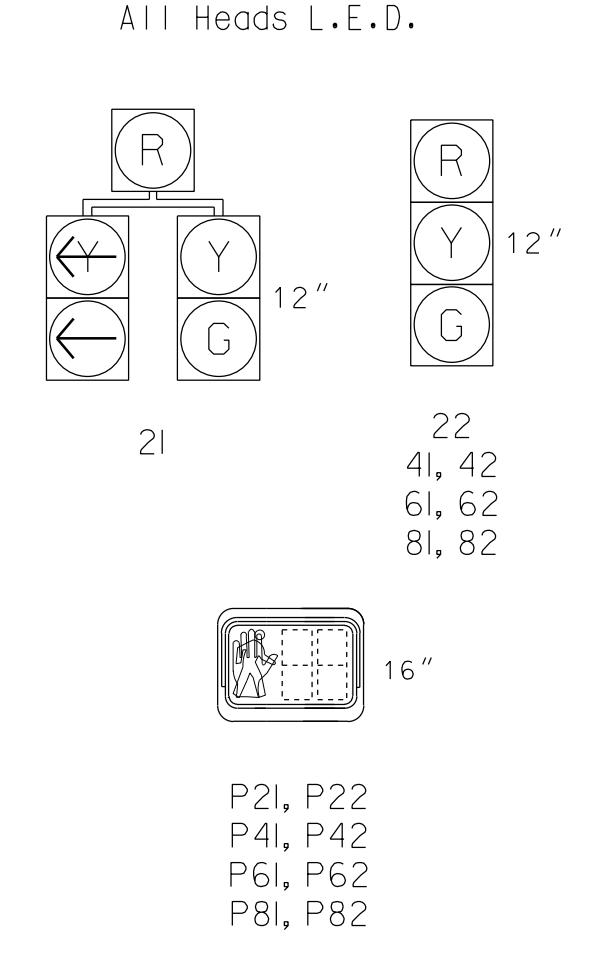
- DETECTED MOVEMENT
UNDETECTED MOVEMENT (OVERLAP)
UNSIGNALIZED MOVEMENT
PEDESTRIAN MOVEMENT

TABLE OF OPERATION

Table with columns: SIGNAL FACE, PHASE (Ø2+5, Ø2+6, Ø4+8, FLASH), and rows for signal faces 21, 22, 41, 42, 61, 62, 81, 82 and pedestrian phases P21, P22, P41, P42, P61, P62, P81, P82.

W - Walk
DW - Don't Walk
DRK - Dark

SIGNAL FACE I.D.



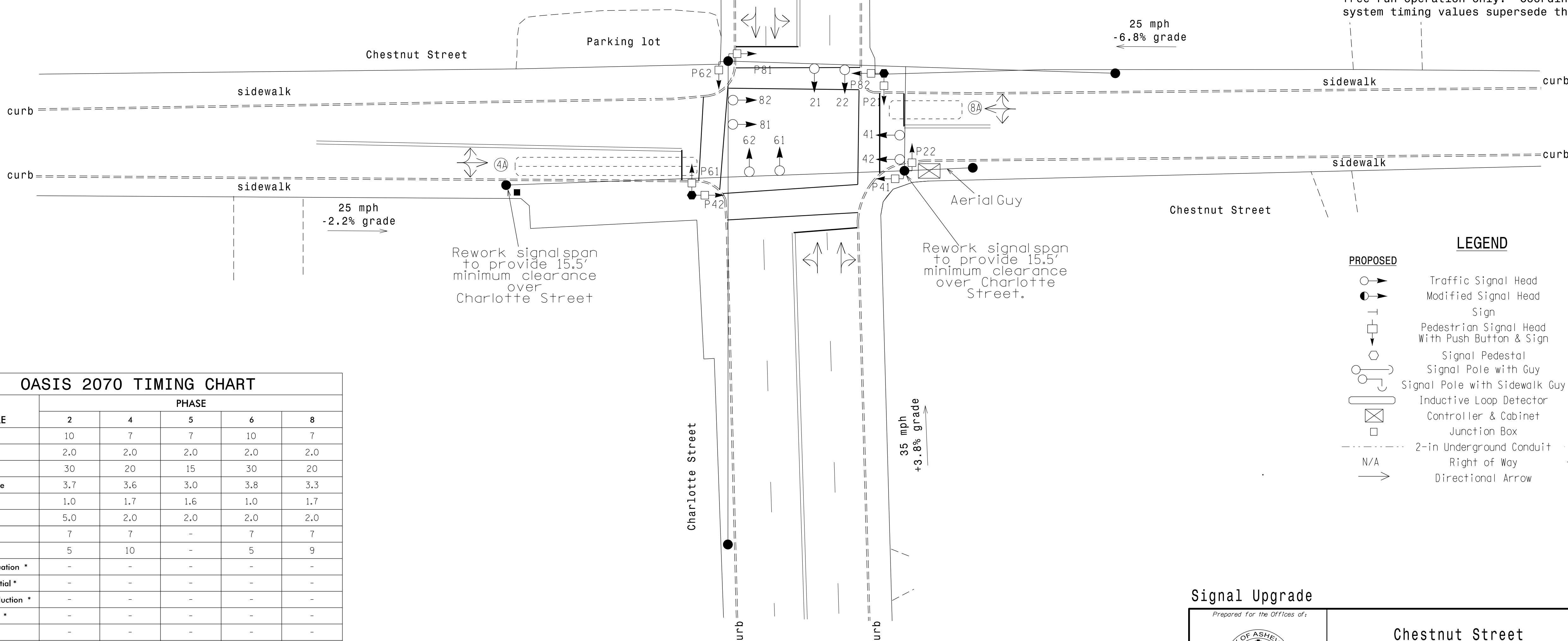
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

Table with columns: LOOP, SIZE (FT), DISTANCE FROM STOPBAR (FT), TURNS, NEW LOOP, PHASE, CALLING, EXTENSION, FULL TIME DELAY, STRETCH TIME, DELAY TIME, SYSTEM LOOP, NEW CARD. Rows include loops 4A and 8A.

3 Phase Semi-Actuated (Asheville Signal System)

NOTES

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012...
2. Do not program signal for late night flashing operation...
3. Enable Backup Protect for phase 2...
4. Set all detector units to presence mode.
5. In the event of loop replacement, refer to the current ITS and Signals Design Manual...
6. Locate new cabinet so as not to obstruct sight distance...
7. The City Traffic Engineer will determine the hours of use...
8. Pavement markings are existing.
9. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
10. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
11. Maximum times shown in timing chart are for free-run operation only.



OASIS 2070 TIMING CHART

Timing chart table with columns: FEATURE, PHASE (2, 4, 5, 6, 8) and rows for Min Green, Extension, Max Green, Yellow Clearance, Red Clearance, Red Revert, Walk, Don't Walk, Seconds Per Actuation, Max Variable Initial, Time Before Reduction, Time To Reduce, Minimum Gap, Recall Mode, Vehicle Call Memory, Dual Entry, Simultaneous Gap.

\* 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. \*\* May be changed to Min Recall by Time of Day at discretion of City Engineer.

LEGEND section with PROPOSED and EXISTING symbols for Traffic Signal Head, Pedestrian Signal Head, Signal Pole, Inductive Loop Detector, etc.

Signal Upgrade

Professional seal area for Melissa B. Toth, Engineer, North Carolina, with project details for Chestnut Street at Charlotte Street, Asheville, NC.

ATKINS logo and address: 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

15-DEC-2016 15:02 D:\P\asheville\1100048632\_U-4715B\_Ashville\11e\_Sig\_Sys\Task\_05\_11\_Signal\_Signals\gn\COA-08.dgn