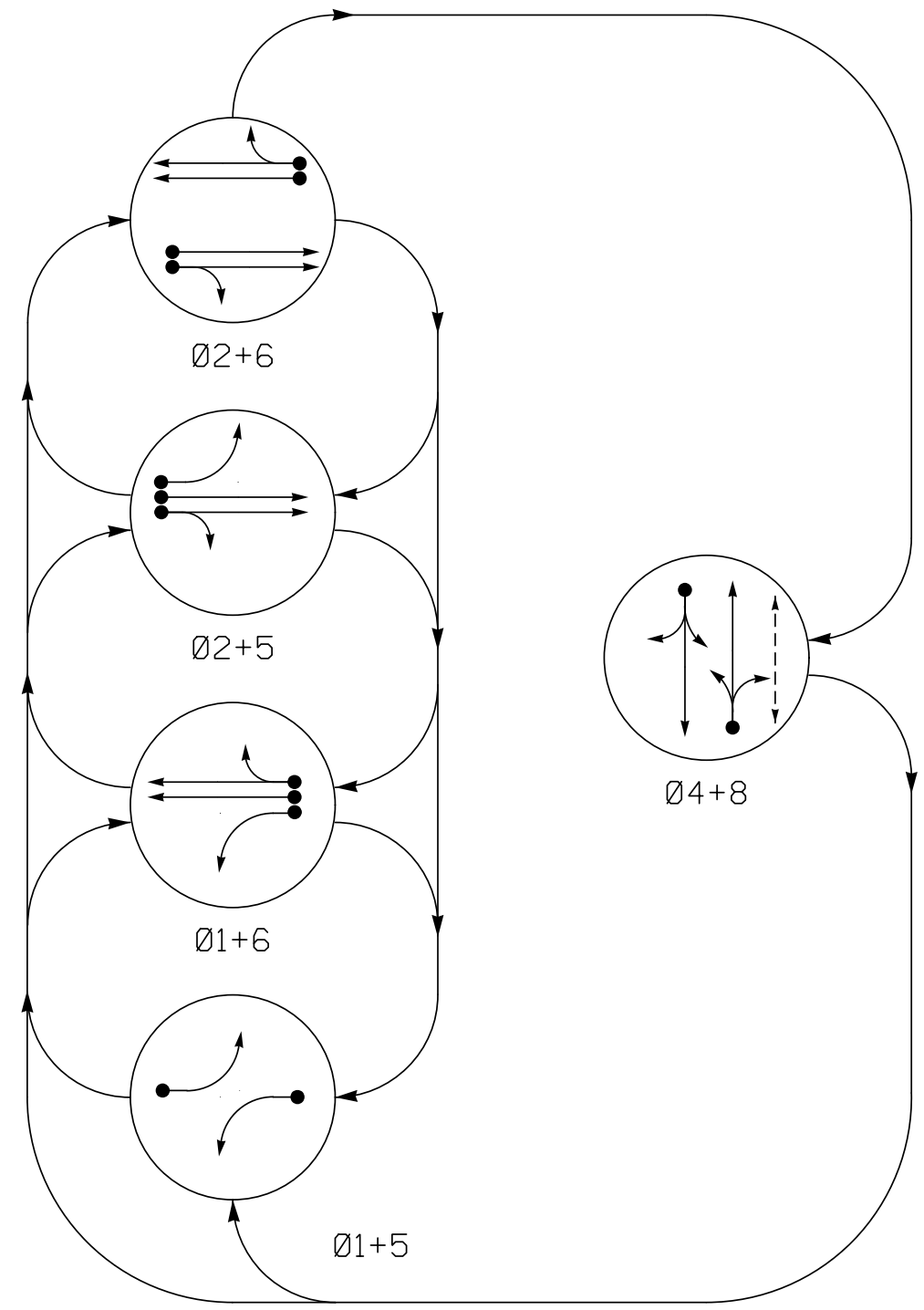


PHASING DIAGRAM



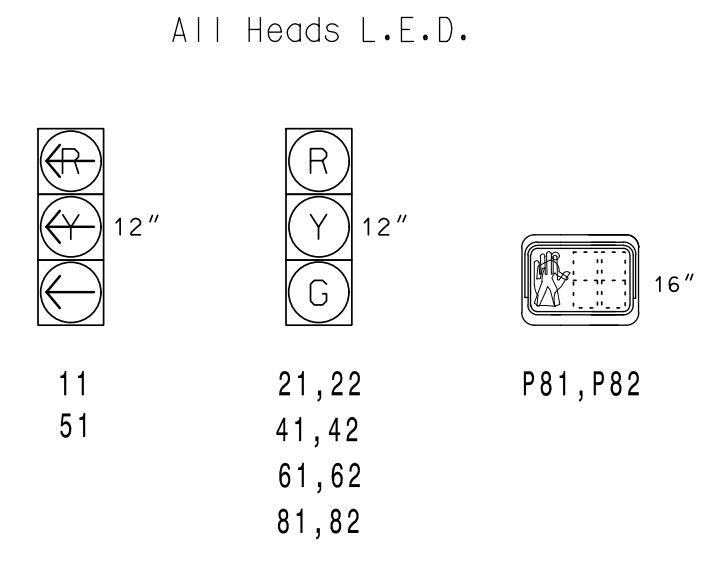
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

Table with columns: SIGNAL FACE, PHASE (Ø 1+5, Ø 1+6, Ø 2+5, Ø 2+6, Ø 4+8, F L H S), and rows for signal faces 11, 21, 22, 41, 42, 51, 61, 62, 81, 82, P81, P82.

SIGNAL FACE I.D.



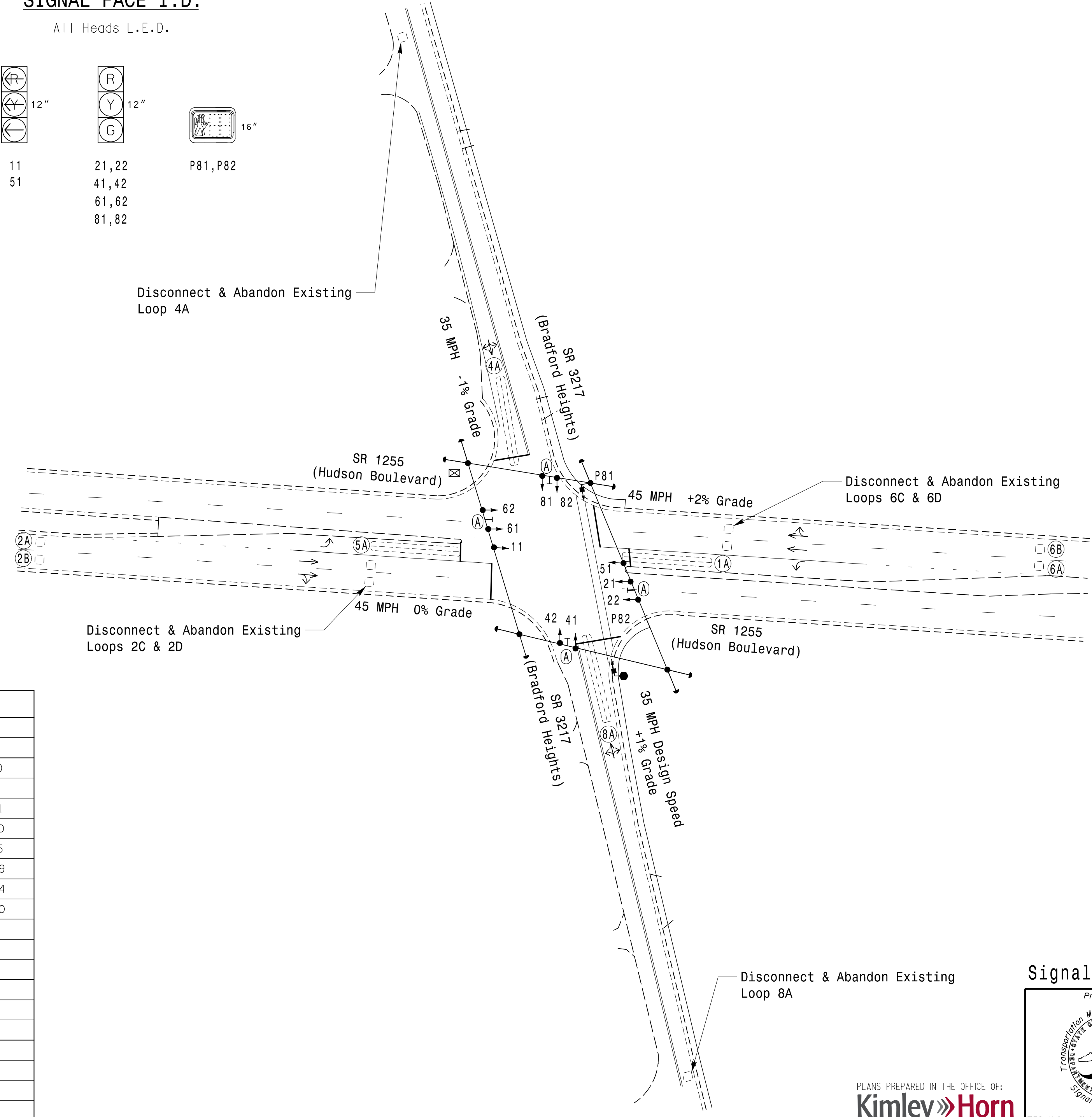
DETECTOR INSTALLATION CHART

Table with columns: LOOP, SIZE (FT), DISTANCE FROM STOPBAR (FT), TURNS, NEW LOOP, PHASE, CALLING, EXTEND TIME, DELAY TIME, USE ADDED INITIAL, TYPE, SYSTEM LOOP, NEW CARD. Rows include loops 1A through 8A.

5 Phase Fully Actuated Gastonia Signal System

NOTES

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018...
2. Do not program signal for late night flashing operation unless otherwise directed...
3. Phase 1 and/or phase 5 may be lagged.
4. Set all detector units to presence mode.
5. In the event of loop replacement, refer to the current ITS and Signal Design Manual...
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
9. Pavement markings are existing.
10. Maximum times shown in timing chart are for free-run operation only.
11. Disconnect and abandon existing loops 2C, 2D, 4A, 6C, 6D, and 8A.
12. Install new cabinet on the existing cabinet foundation.
13. All new cabinets and base extenders shall be black in color.
14. Reconnect lead-in cable to separate loops 2A, 2B, 6A & 6B, as shown.
15. Existing loops 4B and 8B have been relabeled to 4A and 8A, respectively.
16. City system data: Controller Asset #1459.



LEGEND

- PROPOSED: Traffic Signal Head, Modified Signal Head, Pedestrian Signal Head, Signal Pole with Guy, Inductive Loop Detector, Junction Box, Right of Way, Street Name Sign.
EXISTING: Signal Head, N/A, Signal Pole with Sidewalk Guy, Controller & Cabinet, 2-in Underground Conduit, Directional Arrow.

TIMING CHART

Timing chart table with columns: FEATURE, PHASE (1, 2, 4, 5, 6, 8), and rows for various timing parameters like Min Green, Walk, Ped Clear, Veh. Extension, Max I, Yellow, Red Clear, Red Revert, etc.

\* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown.

Signal Upgrade

Professional seal and logo for Kimley-Horn, Inc., State of North Carolina, Signal Design Section.

Project information: SR 1255 (Hudson Boulevard) at SR 3217 (Bradford Heights), Gaston County, Gastonia. Includes dates, names, and revision table.

Professional seal for K. P. Baumann, Engineer, State of North Carolina, Seal #044434.

3/9/2022 11:14:51 AM Dan.Hellie.Curri \*\*\*K:\mley-horn.com\SE-RAL\MRAL\_TIP\DK-LT5\011036569\_Gastonia Signal System\Signal\SW54 - Signal Design\0121459-2021.dgn