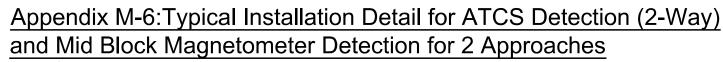


- 1. One IDU shall be provided for each approach to facilitate complete vehicle presence detection (for all approaches and movements) and for ATCS operations. IDUs shall also provide advance detection that is equal to the existing condition. If an existing mast arm serving a side street is present, the IDU providing detection for that approach shall be installed on the side street mast arm.
- Provide in-roadway magnetometers at midblock location to facilitate ATCS cycle change functionality on the Main Line. Distance from intersection to be determined by Contractor's Traffic Engineer. Install Magnetometer Radio and Access Points as needed to provide magnetometer detection information back to the controller.
- 3. For IDU and magnetometer radio installation on existing mast arms, contractor to utilize existing holes and minimize drilling of holes to the furthest extent possible.
- 4. Contractor to submit intersection installation plan and mounting details before construction.



Mag

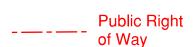
Figure for alternate configurations

Corresponding Symbol on USGS Map

2-Way ATCS detection with only 1 Mid Block Magnetometer Detection approach (see M-3)



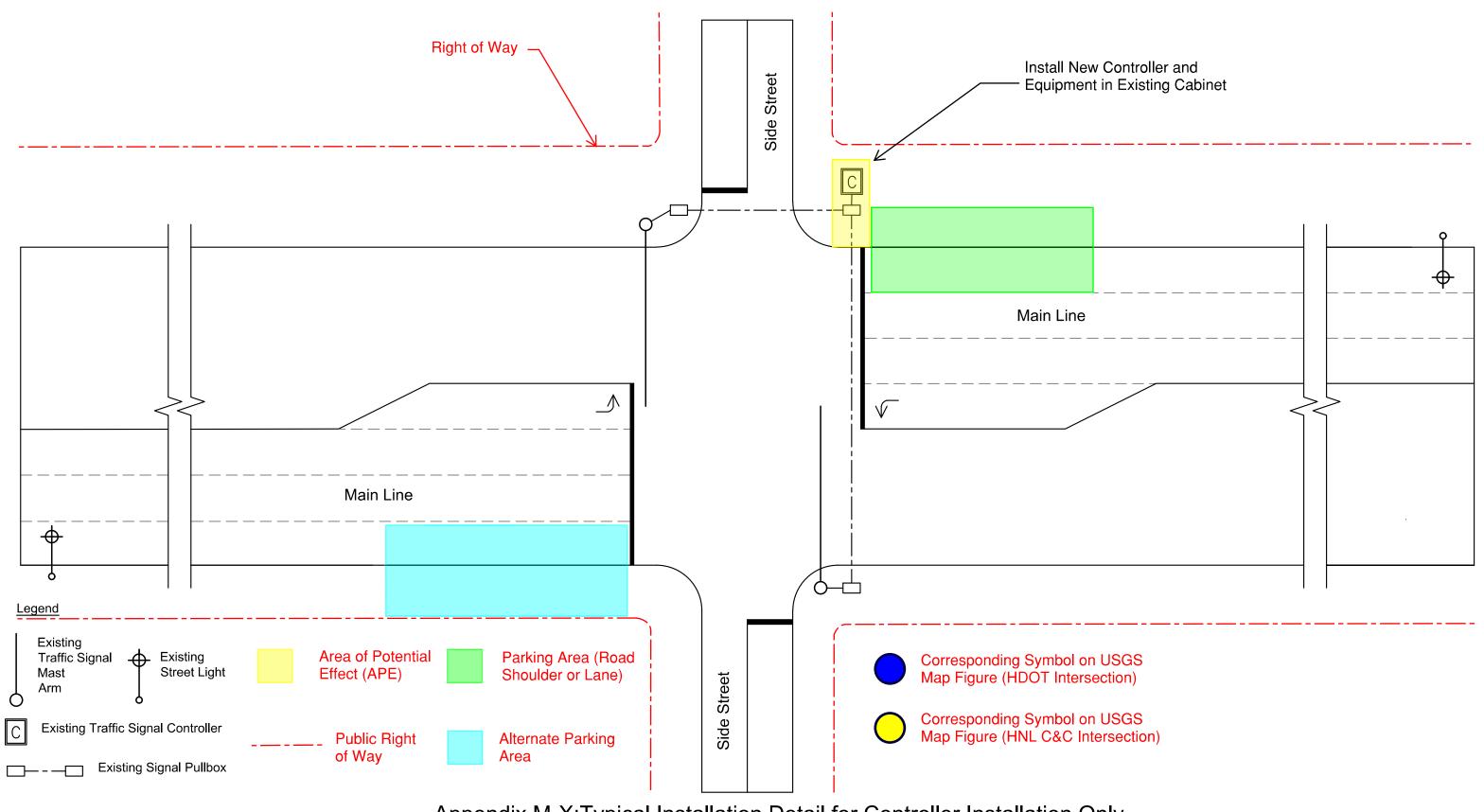
2-Way ATCS detection with no Mid Block Magnetometer Detection (see M-4)





Not To Scale





<u>Appendix M-X:Typical Installation Detail for Controller Installation Only</u> (No ATCS Detection)

Not To Scale