

**CITY OF CHARLOTTE ENGINEERING DEPARTMENT - LAND DEVELOPMENT REVIEW**  
**Permeable Pavement - As-Built Plan Checklist<sup>2017</sup>**

**GENERAL SUBMITTAL REQUIREMENTS**

*Note: If the constructed stone depth or surface area of pavement varies significantly from design, a new detention/BMP analysis may be required from the engineer.*

- \_\_\_\_\_ A sealed as-built plan will be provided by the project design professional for all storm systems and BMP facilities. If applicable, include the following note with PE seal certifying that the BMP(s) have been constructed in accordance with the approved design plans: *The as-built storm water measures, controls, and devices are in compliance with the approved storm water management plans and designs and with the requirements of the Post-Construction Controls Ordinance.*
- \_\_\_\_\_ Title block with site name, location, and vicinity map
- \_\_\_\_\_ A supplemental digital file is needed for City records and will be uploaded to Accela in AutoCAD format shown with the layer configurations described in Section 11.4 of the PCCO Administrative Manual.
- \_\_\_\_\_ All as-built plans will be based on NAD 83/1986 and tied to the North Carolina State Plan Coordinates System (NC GRID) with all BMPs shown and located by x and y coordinates.
- \_\_\_\_\_ All storm system structures identified and labeled the same as the approved plan. All structure elevations are to include an invert elevation, a top of grate (at grade) elevation and any opening elevations used for storm water intake purposes (NAVD 88). All data is to be verified to the closest hundredth of a foot (0.01).
- \_\_\_\_\_ All storm system pipes identified and labeled the same as the approved plan with upstream and downstream invert elevations (NAVD 88), the total length of the pipe run from end to end, with the calculated slope. All data is to be verified to the closest hundredth of a foot (0.01).
- \_\_\_\_\_ Name, location, size and elevation (NAVD 88) of the BMP actually constructed (includes contours within the BMP easement at no greater than two foot intervals).
- \_\_\_\_\_ As-built BMP Inset Table, updated as appropriate for as-built conditions
- \_\_\_\_\_ Location and elevation (NAVD 88) of BMP storm drainage infrastructure inlets, outlets and locations of sizes of pipes and culverts within or leading to/from the facility.
- \_\_\_\_\_ Legible scale

**PERMEABLE PAVEMENT REQUIREMENTS**

- \_\_\_\_\_ Provide sufficient spot elevations for top of permeable pavement surface
- \_\_\_\_\_ Show limits of permeable pavement area, and verify as-built surface area of pavement.
- \_\_\_\_\_ Provide sufficient measurements of pavement/paver and bedding material depth
- \_\_\_\_\_ Provide sufficient stone depth measurements to verify approved depth has been achieved
- \_\_\_\_\_ Locate monitoring well locations, with rim and invert elevations labeled
- \_\_\_\_\_ Show location and top elevation of baffles separating zones within the stone bed under pavement/pavers
- \_\_\_\_\_ Provide an as-built detail of any detention outlet control structure(s) within the pavement section if required; label all dimensions (including invert and top of structure, material, dimensions, etc.)

**MAINTENANCE AGREEMENT**

- \_\_\_\_\_ The Operations & Maintenance / Easement Agreement is to be recorded prior to as-built approval. Must include plat or exhibit showing PCCEs and Natural Area as needed.

Note: Any new or revised storm drainage systems or easements shown on as-built plans may require a subdivision plan revision along with engineering calculations and drainage area maps.