



## Green Infrastructure As-Builts Requirements and Checklists

Green infrastructure as-builts shall not be combined with drainage or other utility as-builts and shall be submitted separately. In order to be considered for a release of the any surety and added to an inspection list and agenda, and Action Request Form, signed off on by the Project Engineer must be submitted concurrently with the drainage as-builts. Action request forms can be found [here](#).

For technical questions, contact Ellen Moore, Engineering Department, at 615-550-6766 [ellen.moore@franklintn.gov](mailto:ellen.moore@franklintn.gov). For questions regarding to Project Engineer sign offs (action requests) or agendas, contact Melodie Brady, Planning and Sustainability Department, 615-550-6736 or [melodie.brady@franklintn.gov](mailto:melodie.brady@franklintn.gov).

Submit CAD and PDF as-builts to <https://franklin.idtplans.com/secure/>. Regular deadlines for inspection lists and agenda placement apply. If an action request form is not received from the project engineer, the green infrastructure improvements cannot be considered for release of performance and establish maintenance, regardless of whether drainage as-builts are submitted.

- PDF (maximum scale shall be 1" = 50')
- CAD prepared in the following format: a .dwg copy of the green infrastructure as-builts in Tennessee state plane coordinates, NAD 83, NAVD 88, zone 4100/5301.
- RLS or Engineer shall begin with the approved grading and drainage plan, then incorporate any field changes made during construction and installation of drainage structures and improvements. The as-builts shall be signed/sealed/dated upon completion by the professional that produced them.
- The title block shall include the approved project name and City of Franklin (COF) project number.
- All as-builts are required to be sealed/signed/dated by the Registered Land Surveyor (RLS) or Engineer that prepared them. COF cannot accept or review unsealed plans or as-builts.
- Contact information of the professional that prepared the as-builts shall be provided on the as-builts, including firm name, address, telephone number and email address.
- The survey shall be reviewed by a PE, who shall provide a stamped certification letter stating that the site has been inspected and that the stormwater management system and stormwater control measures (both structural and non-structural) are complete and functional in accordance with the plans approved by the City and the overall design intent including required treatment volumes has been met.

All checklists for each type of green infrastructure can be found [here](#).

In addition to the above checklists, sites shall include the following:

<b>Plan Requirements:</b>
All plan sheets shall be clearly labeled “As Built” or “record drawing”
All survey sheets shall be stamped, signed, and dated by a licensed surveyor
All applicable survey sheets shall be to scale with a graphical scale bar and north arrow
Survey sheets shall identify the following:
SCMs (bioretention, permeable pavement, detention ponds, etc.), Swales, and Outfall Points
Provide detail sheets for all SCMs with as built and design dimensions (label SF, Tv, and outlet structures)
Provide the SCM Tables shown below
Riparian buffers shall be shown correctly
<b>Calculation Requirements: (when as built does not meet requirements)</b>
Calculations shall be PE stamped, signed, and dated
Provide an accurate as built water quality and quantity map showing area amounts and CN (color coded)
Provide accurate as built LID spread sheets and calculations
Provide accurate as built SCM calculations for any stormwater infrastructure not to design
Provide accurate as built pre & post flow calculations If bioretention is being utilized for detention, the CN reduction spreadsheet shall be utilized with accurate as built treatment volumes. Detention ponds and outlet structures that deviate from the record drawing shall be included in calculations.

Bioretention/Urban Bioretention:

Bioretention Number:	Design	As Built
Forebay top of bank elevation		
Forebay top of check dam elevation		
Bottom of Forebay elevation		
Forebay Surface Area (sf)		
Forebay Treatment volume (cf)		
Bio Top of Bank elevation		
Bio emergency spillway elevation*		
Bio overflow (TOC) elevation*		
Bio surface elevation		
Bio top of stone elevation		
Bio underdrain invert elevation*		
Bio subgrade elevation		
Bio depth of ponding (ft)		
Bio depth of media (ft)		
Bio depth of stone (ft)		
Bio Surface area (sf)		
Bio Treatment Volume (cf)		
*If not used, put N/A.		

For water quality swales, fill out the bioretention table plus the one below:

Water Quality Swale Number	Design	As Built
Channel slope (%)		
Check dam height (ft), number of CD		
Channel drop (ft)		

Permeable Pavement Number	Design	As Built
Overflow elevation*		
Reservoir depth (ft)		
Underdrain invert elevation		
Outlet elevation		
Sump depth (ft)*		
Surface area (sf)		
Treatment volume (cf)		
*If not used, put N/A.		

Dry and Wet ponds shall include a takedown chart showing surface areas and elevations for both as built and record drawings. Water surface elevations shall be provided for wet ponds. Detention pond outlet structures shall be as built on the record drawing detail, with as built elevations shown in red.