

ROADWAY BULLETIN

NCDOT CONSTRUCTION UNIT



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Post Construction Stormwater Control Measures

In order to comply with NCDOT's National Pollutant Discharge Elimination System (NPDES) Permit (NCS000250), Section 3.6.3 Post-Construction Stormwater Program, the Department must maintain structural stormwater control measure (SCM) construction drawings and as-constructed plans on file. More information on SCM types and design specifications can be found in the Department's [BMP Toolbox Manual](#). The Highway Stormwater Program (HSP), co-managed by the Hydraulics, and Roadside Environmental Units, are responsible for managing the various programs to maintain NPDES compliance. In order to assist the HSP in this task, the construction inspector must provide verification that the SCMs have been constructed in accordance with the approved plans. Any deviation from the original plans that could affect the function and treatment capacity of the SCM must be approved by the Hydraulic Engineer and potentially require a permit modification prior to construction. An approved deviation should be marked on the appropriate plan and detail sheets prior to verification.

To assist with compliance, the Construction Manual has recently been updated to include a new section titled "[Post-Construction Stormwater Control Measures](#)," which provides detailed guidance on these documentation requirements.

Covering of Signs: Section 900-4

Cover signs or portions of signs with opaque material if erected on roads open to traffic and not yet applicable. Keep signs or portions of signs covered until instructed to remove the covering. Provide covering for entire signs by an approved method provided by sheeting manufacturer that will prevent the messages from being read or seen during both day and night conditions and that will cause no harm to the sheeting face.

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Section 1510 Waterlines & 1515 Utility Controls

To pay or not to pay? That seems to be a common question amongst several construction offices across the State when discussing waterline and utilities installation. Below are summaries of previous and current NCDOT Specifications.

2012 Specifications Summary:

- Fittings were not paid on waterlines or other (1510 & 1515)
- Hydrant legs were not paid (Per 1510)
- Valves and other items on hydrant legs were not paid (Per 1515)
- Last sentence of 1515-4 included “piping” and “fittings” in the list of items that are *incidental* to the installation of utility controls.

2018 Specifications Summary:

- Ductile Iron Water Pipe Fittings pay item created to be paid per pound (lb) for pressure pipe 4” or larger. (Section 1510)
- Hydrant Leg pay item created to be paid per linear foot (lf). (Section 1515)
- “When relocating a fire hydrant, valves will only be paid for if there is no properly functioning existing valve” added to (Section 1515)
- “Fittings” was removed from the list of items that are incidental to the installation of utility controls in the last sentence of 1515-4, but “piping” remains. "Piping" was not intended to apply to pipe for "hydrant leg". The intent was that the relocate pay item only applies to the relocation of the item itself and other typical pay items such as hydrant leg, valves, and fittings are to be paid when the contract includes such pay items.

2024 Specifications Summary:

- Added “Valves for the fire hydrant leg will be paid separately as _” Valves.” to the first paragraph of 1515-4. This was to clear up the intent for them to be paid on new hydrant legs.

Current Application:

- Hydrant legs, when required, should be paid on *both* new hydrant installations and hydrant relocations.
- Valves on hydrant legs should be paid, except for a relocation where there is an existing functioning valve that is utilized.
- Fittings on waterlines 4” or greater should be paid when required to complete the work, including on hydrant legs. The fittings paid on hydrant legs are those required to complete the installation or relocation beyond those shown in Roadway Standard Drawing 1515.02 as approved by the Engineer.
- Any items required to adjust a hydrant vertically are incidental to the “Relocate Fire Hydrant” per each item.

If you have any questions, please reach out to your respective Area Construction Engineer.

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