



City Of Raleigh

NORTH CAROLINA

DATE: November 14, 2013
TO: Engineers, Contractors, and Suppliers
FROM: City of Raleigh Public Works Department
SUBJECT: Cold Weather Limitations for placement of Concrete

With winter approaching and cold weather to accompany, the City of Raleigh would like to take this time to reiterate its policy on cold weather limitations for placement of concrete. The City of Raleigh's policy on cold weather limitations for placement of concrete follows both the North Carolina Department of Transportation (NCDOT) Standard specification 420-7 (Placing concrete in cold weather) and American Concrete Institute (ACI) 306R-10 (Cold Weather Concreting) which require the following:

- Concrete placement can begin when the air temperature, in the shade away from artificial heat reaches 35 degrees Fahrenheit on a rising thermometer. The temperature of the heated concrete shall be a minimum of 55°F, but not more than 80°F. A batch ticket shall be provided to the project inspector noting the concrete temperature at placement.
- Concrete can be placed without any protection when the air temperature, in the shade away from any artificial heat, is above 35°F for a 72- hour period after placement.
- All concrete shall be protected by heated enclosure or insulated blankets if the air temperature falls below 35°F within the 72-hour (3-day) curing period. The heated enclosure or insulated blankets shall be left in place for a minimum of 72 hours (3 days) from the time of placement. Heated enclosure or insulated blankets shall be on site prior to the pre-pour inspection and shall not have any rips or tears in the water-proofing material.

Any questions regarding this policy can be directed to Kenneth Ritchie, PE, Engineering Inspections Supervisor, at (919) 996-2409.

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