



# City of Basehor

1600 N. 158<sup>th</sup> Street, P.O. BOX 406, Basehor, KS 66007

P: 913-724-1370

## COLD WEATHER CONCRETE

The following procedures are intended to be used to highlight the Cold Weather Concrete requirements listed within the 2018 International Residential Code (IRC) and the American Concrete Institute (ACI) 306, Standard Specification for Cold Weather Concreting. These procedures shall be used for the basis of the acceptance or rejection of any residential concrete inspection in the City of Basehor.

### Cold Weather Inspection Procedure:

1. The inspection of cold weather concrete protection requirements will occur when the average temperature is at or below 40 degrees F for 3 consecutive days and not above 50 degrees F for more than 12 hours of any of those days. This procedure shall apply to all concrete regulated by the City of Basehor.
2. The air temperature shall be at least 25 degrees and rising for an inspection of concrete.
3. The field inspection will verify the sub-grade is not frozen prior to concrete placement.
4. Elements of concrete protection must be on site at the time of inspection.
5. Concrete must be poured the same day as the inspection.
6. If footings were required to be protected from freezing, foundation walls will not be allowed to be poured for at least 48 hours.

### Methods of Protection:

When cold weather conditions exist, surface concrete temperatures must be maintained at 55 degrees F for 2-3 days depending on the concrete mix.

1. **Footings**- an acceptable method of protection from freezing during the curing process is to cover the footings with a minimum of 6 inches of straw. The straw should be held in place with tarps or polyethylene sheeting. The tarps and sheeting are to be secured from the wind.
2. **Foundation Walls**- insulated blankets may be used.
3. When pouring conventional concrete during cold weather conditions, the concrete shall be protected from freezing for at least 72 hours (3 days).
4. When pouring concrete utilizing approved accelerators, Type III Portland Cement, or where the cement ratio is increased 100 pounds per cubic yard; the concrete shall be protected from freezing for at least



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48 hours (2 days). If you use one of these 3 listed methods, documentation must be provided to the Building Department within 24 hours of the concrete placement.

**Note:** If there is cause to believe that the concrete has not been properly protected during cold weather conditions as described above or per another approved method, the Building Department will require that the concrete be tested in order to ensure that proper strength of the concrete has been developed.