Jason Litteral

From:	Midgett, Randy <rmidgett@ncdot.gov></rmidgett@ncdot.gov>
Sent:	Tuesday, June 24, 2025 8:52 AM
То:	Jennie Turner; Bill Newns; Rebecca Gay; Leeann Walton
Cc:	Strader, Mike; timN@crmpinc.com; bobn@crmpinc.com; Bridgers, Clemmon W; Sawyer,
	Ronald K; Otts, David B
Subject:	[EXTERNAL] Commercial Ready Mix Products, Inc

CAUTION: This email originated from outside of WithersRavenel. Do not click links or open attachments unless you recognize the sender and know the content is safe.



Currituck County Officials,

Commercial Ready Mix Products, Inc (CRMP) has in[®] brmed us that they are currently requesting approval [®] currituck County to construct a Portland Cement Concrete Plant in the central area o[®] the County.

CRMP is the largest supplier or Portland Cement Concrete (PCC) in our 14 County Division. In many areas or the Division they are the only approved producer/supplier.

In order to become an approved producer/supplier [®] r NCDOT, concrete plants must meet minimum standards, pass routine inspections, and be operated by personnel trained and certified by the Department. The Department must also approve all sources o[®] materials utilized in the concrete mix as well as the proportions o[®] the materials themselves.

Once the PCC is delivered to one o? our building sites, the Department's Technicians test the physical properties o? the mixture to determine acceptability prior to placement. They also collect strength samples which are tested for compressive strength a? the mix has matured ? or 28 days.

In other words, concrete production [®] nCDOT undergoes probably the most rigorous Quality Control process o[®] any material utilized [®] nighway construction. Constructing plants, and producing PCC [®] n the Department requires significant investment, not only in the physical plant, but also in research, mix design, sourcing o[®] materials, and training o[®] quality personnel.

In addition to everything mentioned thus Par, concrete delivery is one on the most difficult, and risky steps on the production process. Once a load on PCC is batched into the mixing truck the chemical process on the hydration begins immediately. The time we have to get the material to the job site, tested, and placed into it's final location is limited. This time limit is largely driven by temperature. For certain mix designs this can be as little as 30 minutes or as long as 90 minutes. The table below is Promour Standard Specifications.

TABLE 1000-2 ELAPSED TIME FOR PLACING CONCRETE			
	Maximum Elapsed Time		
Air or Concrete Temperature Whichever is Higher	No Retarding Admixture	Retarding Admixture	
	Used	Used	
90°F or above	30 minutes	1 hr. 15 minutes	
80°F through 89°F	45 minutes	1 hr. 30 minutes	
79°F or below ^A	60 minutes	1 hr. 45 minutes	
70°F through 79°F ^B	60 minutes	1 hr. 45 minutes	
69°F or below ^B	1 hr. 30 minutes	2 hr. 15 minutes	

A. Applicable to Class AA, A and Drilled Pier concrete.

B. Applicable to Class B concrete.

Having reliable PCC Plants strategically placed around the Division aids in being able to receive quality concrete mixtures in a same and timely manner.

The above is presented as in[®] ormation regarding the logistics o[®] PCC Production and Delivery to our Projects, it should not be intrepreted as an endorsement o[®] a speci[®] c producer/supplier.

But the Department believes that having an additional PCC plant in the Mid Currituck area would be bene[®] cial to our mission. As well as bene[®] t commercial and residential endeavors needing PCC [®] or their projects.

Randy W. Midgett, PE Division Construction Engineer Division One NC Department of Transportation

252-482-1850 Office

rmidgett@ncdot.gov

113 Airport Drive Edenton, NC 27932



Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

Email correspondence to and from this sender is subject to the N.C. Public Records Law and may be disclosed to third parties.