



H. H. HOLMES TESTING LABORATORIES, INC.

Report No. 1

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Lab No. CH 3059

File No. 9265.2

Applied Concrete Technology, Inc.
P.O. Box 4015
Arlington Heights, IL 60006-4015

Re: Test Mixes

QUANTITIES OF CONSTITUENT MATERIALS PER NOMINAL CUBIC YARD OF CONCRETE

<u>Materials:</u>	Cement	: Illinois Type I
	Fine Aggregate	: Natural Sand - Meyer McHenry
	Coarse Aggregate	: #67 Limestone - Vulcan McCook
	Admixtures	: Daravair - W.R. Grace
		: Mix Water Conditioner - ACT

<u>Mix No.</u>	<u>8</u>
Cement (lbs)	517
Natural Sand (lbs)	1400
#67 Limestone (lbs)	1775
Water (lbs)	249
Daravair (oz/cu. yd.)	3
Mix Water Conditioner - ACT (oz./cwt.)	-
W/C Ratio	0.48
Wt./Cu. Ft.	146.4
Slump (in.)	3 1/2
Air % by Volume	5.8
Concrete Temp. (deg. F.)	70
Ambient Temp. (deg. F.)	70

<u>Setting Times (hours - minutes)</u>	<u>70 deg. F. Curing temp.</u>	<u>45 deg. F. Curing temp.</u>
Initial Set	2 - 55	6 - 00
Final Set	5 - 30	10 - 00

<u>Compressive Strength (psi)</u>		
3 Days	3800	2810
	3980	2940
7 Days	4630	4050
	4600	4280
28 Days	5750	
	5710	

Respectfully submitted,

Richard E. Nelson, Jr.
President

Kenneth M. Clibourn
Laboratory Director

