

Architecture
Structural
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Materials Testing
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Civil/Planning

ROCKY MOUNTAIN GROUP
EMPLOYEE OWNED

Job No. 181479

October 26, 2021

Landhuis Company
212 N. Wahsatch Ave. Ste 301
Colorado Springs, CO

Re: Cement Treated Subgrade Test Results (October 18, 2021, Set 25)
The Hills at Lorson Ranch, Area C, Grayling Dr., STA 10+50
El Paso County, Colorado

Dear Landhuis Company:

RMG – Rocky Mountain Group sampled cement treated subgrade (CTS) soils during placement and compaction during construction of the streets in the above referenced subdivision. Our sampling and testing consisted of preparation of four (4) CTS “pucks” for each sample location. Pucks were prepared by compacting sampled CTS materials in the Standard Proctor mold utilizing Standard Proctor compactive effort (ASTM D-698). The pucks were extruded from the mold and moist-cured in the laboratory seven (7) days prior to testing for compressive strength.

The compressive strength for each puck was determined at seven (7) days after placement to verify that the minimum required compressive strength of 125 psi was obtained prior to placement of hot-mix bituminous pavements. The results of our testing are presented in the table below:

Sample Location	Date Prepared	Puck #	7-Day Compressive Strength	
			Tested Strength, psi	Average 7-Day Compressive Strength, psi
Grayling Dr., STA 10+50 (Left of CL)	10/18/2021	A	340	220
		B	300	
		C	130	
		D	90*	

Based upon our test results, the cement treated subgrade that was placed and compacted at the locations tested on October 18, 2021 met the minimum design strength requirements as recommended in RMG's *Pavement Design Report, The Hills at Lorson Ranch – Area "C", El Paso County, Colorado, Job No. 181479, last dated September 23, 2021, and the Addendum to Pavement Design Report, Job No. 181479, stamped September 28, 2021.* *Note: this specimen was damaged during sample extrusion.

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I hope this provides the information you have requested. Should you have questions, please feel free to contact our office.

Cordially,

RMG – Rocky Mountain Group



Cory Ramsey, P.E.
Geotechnical Project Manager