July 31, 2023

Tech Contractors 3575 Kenyon Street, Suite 200 San Diego, California 92110

Attn: Raul Guzman

Re: Cement Stabilized Subgrade Results - Laboratory Testing Estates at Rolling Hills Ranch at Meridian Ranch Filing No. 2 El Paso County, Colorado

Dear Mr. Guzman:

As requested, personnel of Entech Engineering, Inc. have performed strength testing on two sets of three soil/cement composite samples for the above reference project. Testing was performed on both soil types used in the pavement design prepared with 2% and 4% Portland Cement Type 1L.

A minimum compression strength of 125 psi is recommended for cement stabilized subgrade. The 5-day average strength value of the 2% mix was 223 psi. The 5-day average strength value of the 4% mix was 336 psi. A 3% mix is recommended based on the laboratory test results and field variability in the soils. A summary of the testing results is attached.

Pending the results of the field density testing, microfracturing of the stabilized subgrade will likely be required. Soil strengths in excess 275 psi require microfracturing.

We trust this has provided you with the information you required. if you have any questions or need additional information, please do not hesitate to contact us.

Respectfully Submitted,

ENTECH ENGINEERING, INC.

Daniel P. Stegman

DPS/dps

Encl.

Entech Job No. 221676 AAprojects/2022/221676 - cssr — lab1L







505 ELKTON DRIVE COLORADO SPRINGS, CO 80907 PHONE (719) 531-5599 FAX (719) 531-5238



SUMMARY OF CTS TEST RESULTS LAB TESTING

CLIENT TECH CONTR	ENT TECH CONTRACTORS		NO 221676
PROJECT ROLLING HILI	_S ETATES, F-2	DAT	E 7/19/23
FIELD SAMPLE ID	SAND, SILTY, BROWN	BY	BL
SOIL ADDITIVE	TYPE 1L CEMENT	-	

ADDITIVE %	WATER %	DENSITY (dry)	AGE (days)	STRENGTH (psi)
2	8.8	112.8	5	237
2	8.8	112.5	5	207
2	8.8	113.4	5	224
			AVERAGE:	223
4	8.8	112.8	5	396
4	8.8	112.9	5	328
4	8.8	113.2	5	285
			AVERAGE:	336

CURING METHOD

100° HUMIDIFIED OVEN