



ENTECH
ENGINEERING, INC.

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

June 3, 2022

Classic Communities
2138 Flying Horse Club Drive
Colorado Springs, CO. 80921

Attn: Mark Sherwood

Re: Density Testing – Sanitary Sewer
Forest Lakes Development, Filing 7
Colorado Springs, Colorado
Report No. 7, Tests 184 - 229

Dear Mr. Sherwood,

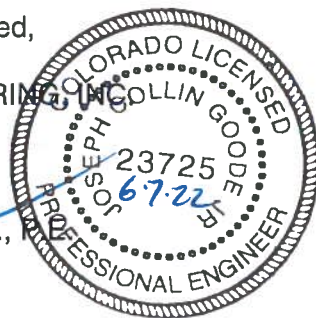
As requested, personnel of Entech Engineering, Inc. have performed density testing at the above referenced site.

Density testing on this site was performed on April 15 through 21, 2022. The density testing indicates that the materials have been adequately compacted at the depths and in the locations noted with the exception of tests 206, 214 and 222. However, a re-test was taken the same day on April 20 and 21, 2022. Results of the density tests are enclosed with this letter.

We trust that this has provided you with the information you require. Should you have any questions or need further information, please do not hesitate to contact us.

Respectfully Submitted,

ENTECH ENGINEERING, INC.



Joseph C. Goode, Jr.,
President

JCG/pb

Enclosure

Entech Job No. 220622

F:\AA projects\2022\220622-FKRD-Forest Lakes F7-110-ConMat\220622_2cl7.doc


Client: Classic Communities	Entech Job #: 220622.2	Proctor Value Key: M = modified, ASTM D-1557
Project: Forest Lakes Development, Filing 7	Tested By: B. Wasilik	S = standard, ASTM D-698
Subject: Sanitary Sewer	Report Date: 06-03-2022	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
184	Service, Lot # 67, at grade.	4/15/2022	95	95	10.5	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
185	Manhole # 2, 6' below grade.	4/15/2022	97	95	6.8	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
186	Service, Lot # 69, at grade.	4/15/2022	99	95	6.8	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
187	Service, Lot # 65, at grade.	4/15/2022	99	95	6.9	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
188	Manhole # 5, at grade.	4/15/2022	96	95	7.2	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
189	Manhole # 2, 4' below grade.	4/15/2022	95	95	7.6	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
190	Manhole # 2, 2' below grade.	4/18/2022	95	95	6.8	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
191	Main, Station # 5 + 50 on Mountain Lodge Lane, 9' below grade.	4/18/2022	96	95	7.5	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
192	Main, Station # 5 + 50 on Mesa Top Drive, 8' below grade.	4/18/2022	95	95	8.8	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
193	Main, Station # 5 + 50 on Mountain Ledge Lane, 7' below grade.	4/18/2022	95	95	7.7	SM	M - 125.7 @ 8.8	<input type="checkbox"/>

Comments:

Scope of Observation: PERIODIC; CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED

All dimensions are approximate. Cl. = Centerline

 <p>ENTECH ENGINEERING, INC. 505 Elkton Drive Colorado Springs, CO 80907 (719) 531-5599 • (719) 531-5238 (fax)</p>	<p>FIELD DENSITY RESULTS</p> <p><i>Joseph C. Goode, Jr., P.E.</i></p>
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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
194	Main, Station 5 + 50 on Mountain Ledge Lane, 5' below grade.	4/18/2022	96	95	7.2	SM	M - 125.7 @ 8.8	<input checked="" type="checkbox"/>
195	Main, Station 5 + 50 on Mesa Top Drive, 6' below grade.	4/18/2022	95	95	7.5	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
196	Main, Station # 5 + 50 on Mountain Ledge Lane, 3' below grade.	4/18/2022	96	95	7.1	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
197	Main, Station # 5 + 50 on Mountain Ledge Lane, 2' below grade.	4/18/2022	97	95	7.3	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
198	Main, Station 5 + 50 on Mesa Top Drive, 4' below grade.	4/18/2022	98	95	6.8	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
199	Main, Station # 5 + 50 on Mountain Ledge Lane, at grade.	4/18/2022	97	95	7.7	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
200	Main, Station # 5 + 50 on Mesa Top Drive, 2' below grade.	4/18/2022	96	95	7.9	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
201	Manhole # 2, at grade.	4/18/2022	95	95	6.8	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
202	Main, Station # 5 + 50 on Mesa Top Drive, at grade.	4/18/2022	100	95	6.9	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
203	Manhole # 1, 7' below grade.	4/19/2022	97	95	8.6	SM	M - 125.7 @ 8.8	<input type="checkbox"/>

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FIELD DENSITY RESULTS

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Project: Forest Lakes Development, Filing 7	Tested By: B. Wasilik	S = standard, ASTM D-698
Subject: Sanitary Sewer	Report Date: 06-09-2022	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
204	Manhole # 1, 5' below grade.	4/19/2022	99	95	7.1	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
205	Manhole # 1, 3' below grade.	4/19/2022	97	95	7.1	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
206	Manhole # 11, 10' below grade.	4/20/2022	87	95	11.9	SM	M - 118.7 @ 10.0	<input checked="" type="checkbox"/>
206a	Manhole # 11, 10' below grade. *retest*	4/20/2022	99	95	8.3	SM	M - 118.7 @ 10.0	<input type="checkbox"/>
207	Manhole # 1, 1' below grade.	4/20/2022	97	95	7.0	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
208	Main, Station # 2 + 50 on Mesa Top Drive, 8' below grade.	4/20/2022	98	95	8.3	SM	M - 118.7 @ 10.0	<input type="checkbox"/>
209	Manhole # 11, 8' below grade.	4/20/2022	98	95	10.4	SM	M - 118.7 @ 10.0	<input type="checkbox"/>
210	Manhole # 11, 6' below grade.	4/20/2022	97	95	8.2	SM	M - 118.7 @ 10.0	<input type="checkbox"/>
211	Main, Station # 2 + 50 on Mesa Top Drive, 6' below grade.	4/20/2022	99	95	9.8	SM	M - 118.7 @ 10.0	<input type="checkbox"/>
212	Manhole # 11, 4' below grade.	4/20/2022	99	95	9.1	SM	M - 118.7 @ 10.0	<input type="checkbox"/>

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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
213	Main, Station # 2 + 50 on Mesa Top Drive, 4' below grade.	4/20/2022	97	95	8.1	SM	M - 118.7 @ 10.0	<input type="checkbox"/>
214	Manhole # 11, 2' below grade.	4/20/2022	88	95	13.7	SM	M - 118.7 @ 10.0	<input checked="" type="checkbox"/>
214a	Manhole # 11, 2' below grade. *retest*	4/20/2022	97	95	11.7	SM	M - 118.7 @ 10.0	<input type="checkbox"/>
215	Manhole # 11, at grade.	4/20/2022	100	95	6.9	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
216	Main, Station # 2 + 50 on Mesa Top Drive, 2' below grade.	4/20/2022	100	95	9.6	SM	M - 118.7 @ 10.0	<input type="checkbox"/>
217	Main, Station # 2 + 50 on Mesa Top Drive, at grade.	4/20/2022	99	95	7.1	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
218	Main, Station # 2 + 50 on Mountain Ledge Lane, 10' below grade.	4/21/2022	97	95	11.1	SM	M - 118.7 @ 10.0	<input type="checkbox"/>
219	Main, Station # 2 + 50 on Mountain Ledge Lane, 8' below grade.	4/21/2022	96	95	7.9	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
220	Main, Station # 2 + 50 on Mountain Ledge Lane, 6' below grade.	4/21/2022	98	95	8.3	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
221	Main, Station # 2 + 50 on Mountain Ledge Lane, 4' below grade.	4/21/2022	95	95	6.8	SM	M - 125.7 @ 8.8	<input type="checkbox"/>

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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
222	Main, Station # 2 + 50 on Mountain Ledge Lane, 2' below grade.	4/21/2022	89	95	9.0	SM	M - 125.7 @ 8.8	<input checked="" type="checkbox"/>
222a	Main, Station # 2 + 50 on Mountain Ledge Lane, 2' below grade. *retest*	4/21/2022	96	95	7.2	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
223	Main, Station # 2 + 50 on Mountain Ledge Lane, at grade.	4/21/2022	99	95	7.3	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
224	Main, Station # 8 + 25 on Foothills Flash Court, 10' below grade.	4/21/2022	95	95	6.8	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
225	Main, Station # 8 + 25 on Foothills Flash Court, 8' below grade.	4/21/2022	95	95	8.6	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
226	Main, Station # 8 + 25 on Foothills Flash Court, 6' below grade.	4/21/2022	95	95	7.5	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
227	Main, Station # 8 + 25 on Foothills Flash Court, 4' below grade.	4/21/2022	96	95	7.6	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
228	Main, Station # 8 + 25 on Foothills Flash Court, 2' below grade.	4/21/2022	95	95	9.9	SM	M - 125.7 @ 8.8	<input type="checkbox"/>
229	Main, Station # 8 + 25 on Foothills Flash Court, at grade.	4/21/2022	95	95	6.8	SM	M - 125.7 @ 8.8	<input type="checkbox"/>

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