



**ENTECH**  
ENGINEERING, INC.

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

October 19, 2021

FLRD #6  
2138 Flying Horse Club Drive  
Colorado Springs, CO 80921

Attn: Jim Boulton

Re: Density Testing – Sanitary Sewer  
Forest Lakes Residential Development, Filing 6  
Colorado Springs, Colorado  
Report No. 9, Tests 184 – 281

Dear Mr. Boulton,

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

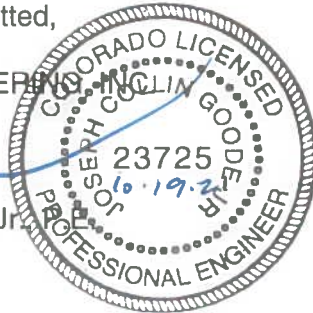
Density testing on this site was performed on August 8, 2021 – August 20, 2021. The density testing indicates that the materials have been adequately compacted at the depths and in the locations noted. Results of the density tests are enclosed with this letter.

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/kw

Enclosure

Entech Job No. 201326

F:\AA projects\2020\201326-FLRD-Forest Lakes F6-110-ConMat\201326\_2cl9.doc

<b>Client:</b> FLRD #6	<b>Entech Job #:</b> 201326.2	<b>Proctor Value Key:</b> M = modified, ASTM D-1557
<b>Project:</b> Forest Lakes Residential Development, Filing 6	<b>Tested By:</b> J. Claton	S = standard, ASTM D-698
<b>Subject:</b> Sanitary Sewer	<b>Report Date:</b> 10-20-2021	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
184	Service to Lot 54 on Timber Trek Drive, 12' below grade.	8/9/21	99	98	6.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
185	Service to Lot 54 on Timber Trek Drive, 10' below grade.	8/9/21	99	98	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
186	Service to Lot 54 on Timber Trek Drive, 8' below grade.	8/9/21	98	95	7.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
187	Service to Lot 54 on Timber Trek Drive, 6' below grade.	8/10/21	98	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
188	Service to Lot 54 on Timber Trek Drive, 4' below grade.	8/10/21	95	95	9.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
189	Service to Lot 54 on Timber Trek Drive, 2' below grade.	8/11/21	97	95	8.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
190	Service to Lot 54 on Timber Trek Drive, at grade.	8/11/21	96	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
191	Service to Lot 52 on Timber Trek Drive, 12' below grade.	8/9/21	99	98	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
192	Service to Lot 52 on Timber Trek Drive, 10' below grade.	8/9/21	98	98	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
193	Service to Lot 52 on Timber Trek Drive, 8' below grade.	8/9/21	97	95	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

**Comments:**

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

All dimensions are approximate. Cl. = Centerline



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FIELD DENSITY RESULTS

*Joseph C. Goode, Jr., P.E.*

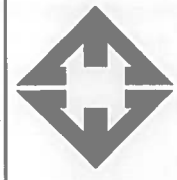
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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
194	Service to Lot 52 on Timber Trek Drive, 6' below grade.	8/10/21	98	95	7.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
195	Service to Lot 52 on Timber Trek Drive, 4' below grade.	8/10/21	97	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
196	Service to Lot 52 on Timber Trek Drive, 2' below grade.	8/11/21	97	95	5.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
197	Service to Lot 52 on Timber Trek Drive, at grade.	8/11/21	98	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
198	Service to Lot 43 on Mesa Top Drive, 12' below grade.	8/9/21	98	98	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
199	Service to Lot 43 on Mesa Top Drive, 10' below grade.	8/9/21	98	98	8.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
200	Service to Lot 43 on Mesa Top Drive, 8' below grade.	8/9/21	97	95	9.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
201	Service to Lot 43 on Mesa Top Drive, 6' below grade.	8/10/21	98	95	7.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
202	Service to Lot 43 on Mesa Top Drive, 4' below grade.	8/10/21	97	95	8.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
203	Service to Lot 43 on Mesa Top Drive, 2' below grade.	8/11/21	95	95	9.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
204	Service to Lot 43 on Mesa Top Drive, at grade.	8/11/21	97	95	8.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
205	Service to Lot 42 on Mesa Top Drive, 12' below grade.	8/9/21	99	98	7.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
206	Service to Lot 42 on Mesa Top Drive, 10' below grade.	8/9/21	98	98	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
207	Service to Lot 42 on Mesa Top Drive, 8' below grade.	8/9/21	96	95	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
208	Service to Lot 42 on Mesa Top Drive, 6' below grade.	8/10/21	96	95	7.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
209	Service to Lot 42 on Mesa Top Drive, 4' below grade.	8/10/21	97	95	6.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
210	Service to Lot 42 on Mesa Top Drive, 2' below grade.	8/11/21	95	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
211	Service to Lot 42 on Mesa Top Drive, at grade.	8/11/21	95	95	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
212	Service to Lot 41 on Mesa Top Drive, 12' below grade.	8/9/21	99	98	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
213	Service to Lot 41 on Mesa Top Drive, 10' below grade.	8/9/21	99	98	6.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
214	Service to Lot 41 on Mesa Top Drive, 8' below grade.	8/9/21	97	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
215	Service to Lot 41 on Mesa Top Drive, 6' below grade.	8/10/21	96	95	5.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
216	Service to Lot 41 on Mesa Top Drive, 4' below grade.	8/10/21	96	95	5.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
217	Service to Lot 41 on Mesa Top Drive, 2' below grade.	8/11/21	95	95	5.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
218	Service to Lot 41 on Mesa Top Drive, at grade.	8/11/21	97	95	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
219	Service to Lot 53 on Timber Trek Dr., 2' below grade.	8/12/21	96	95	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
220	Service to Lot 53 on Timber Trek Dr., at grade.	8/12/21	96	95	7.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
221	Service to Lot 55 on Timber Trek Dr., 2' below grade.	8/12/21	95	95	8.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
222	Service to Lot 55 on Timber Trek Dr., at grade.	8/12/21	99	95	8.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
223	Service to Lot 56 on Timber Trek Dr., 2' below grade.	8/13/21	93	95	9.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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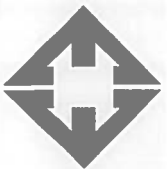
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Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
224	Service to Lot 56 on Timber Trek Dr., at grade.	8/13/21	97	95	8.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
225	Service to Lot 66 on Timber Trek Dr., 2' below grade.	8/13/21	95	95	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
226	Service to Lot 66 on Timber Trek Dr., at grade.	8/13/21	96	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
227	Service to Lot 67 on Timber Trek Dr., 2' below grade.	8/14/21	98	95	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
228	Service to Lot 67 on Timber Trek Dr., at grade.	8/14/21	99	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
229	Service to Lot 65 on Timber Trek Dr., 8' below grade.	8/12/21	98	95	7.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
230	Service to Lot 65 on Timber Trek Dr., 6' below grade.	8/12/21	97	95	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
231	Service to Lot 65 on Timber Trek Dr., 4' below grade.	8/13/21	99	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
232	Service to Lot 65 on Timber Trek Dr., 2' below grade.	8/13/21	97	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
233	Service to Lot 65 on Timber Trek Dr., at grade.	8/14/21	96	95	6.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
234	Service to Lot 63 on Timber Trek Dr., 10' below grade.	8/12/21	99	98	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
235	Service to Lot 63 on Timber Trek Dr., 8' below grade.	8/12/21	97	95	7.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
236	Service to Lot 63 on Timber Trek Dr., 6' below grade.	8/13/21	95	95	7.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
237	Service to Lot 63 on Timber Trek Dr., 4' below grade.	8/13/21	95	95	8.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
238	Service to Lot 63 on Timber Trek Dr., 2' below grade.	8/14/21	98	95	8.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
239	Service to Lot 63 on Timber Trek Dr., at grade.	8/14/21	97	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
240	Service to Lot 64 on Timber Trek Dr., 10' below grade.	8/12/21	99	98	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
241	Service to Lot 64 on Timber Trek Dr., 8' below grade.	8/12/21	97	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
242	Service to Lot 64 on Timber Trek Dr., 6' below grade.	8/13/21	96	95	6.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
243	Service to Lot 64 on Timber Trek Dr., 4' below grade.	8/13/21	96	95	5.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
244	Service to Lot 64 on Timber Trek Dr., 2' below grade.	8/14/21	96	95	7.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
245	Service to Lot 64 on Timber Trek Dr., at grade.	8/14/21	95	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
246	Manhole 21 on Mesa Top Drive, 22' below grade.	8/16/21	99	98	6.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
247	Manhole 21 on Mesa Top Drive, 20' below grade.	8/16/21	98	98	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
248	Manhole 21 on Mesa Top Drive, 18' below grade.	8/16/21	98	98	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
249	Manhole 21 on Mesa Top Drive, 16' below grade.	8/16/21	98	98	7.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
250	Manhole 21 on Mesa Top Drive, 14' below grade.	8/17/21	99	98	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
251	Manhole 21 on Mesa Top Drive, 12' below grade.	8/17/21	99	98	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
252	Manhole 21 on Mesa Top Drive, 10' below grade.	8/17/21	99	98	7.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
253	Manhole 21 on Mesa Top Drive, 8' below grade.	8/17/21	97	95	7.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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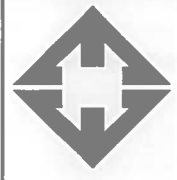
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Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
254	Main, Station 5 + 10 on Mesa Top Drive, 22' below grade.	8/16/21	98	98	6.4	SM	M - 130.3 @ 7.6	<input checked="" type="checkbox"/>
255	Main, Station 5 + 10 on Mesa Top Drive, 20' below grade.	8/16/21	98	98	6.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
256	Main, Station 5 + 10 on Mesa Top Drive, 18' below grade.	8/16/21	98	98	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
257	Main, Station 5 + 10 on Mesa Top Drive, 16' below grade.	8/16/21	99	98	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
258	Main, Station 5 + 10 on Mesa Top Drive, 14' below grade.	8/17/21	99	98	7.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
259	Main, Station 5 + 10 on Mesa Top Drive, 12' below grade.	8/17/21	98	98	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
260	Main, Station 5 + 10 on Mesa Top Drive, 10' below grade.	8/17/21	98	98	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
261	Main, Station 5 + 10 on Mesa Top Drive, 8' below grade.	8/17/21	97	95	7.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
262	Manhole 22 on Mesa Top Dr., 22' below grade.	8/16/21	98	98	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
263	Manhole 22 on Mesa Top Dr., 20' below grade.	8/16/21	99	98	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
264	Manhole 22 on Mesa Top Dr., 18' below grade.	8/16/21	98	98	7.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
265	Manhole 22 on Mesa Top Dr., 16' below grade.	8/16/21	98	98	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
266	Manhole 22 on Mesa Top Dr., 14' below grade.	8/17/21	98	98	7.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
267	Manhole 22 on Mesa Top Dr., 12' below grade.	8/17/21	99	98	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
268	Manhole 22 on Mesa Top Dr., 10' below grade.	8/17/21	99	98	7.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
269	Manhole 22 on Mesa Top Dr., 8' below grade.	8/17/21	98	95	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
270	Main, Station 3 + 00 on Mesa Top Drive, 22' below grade.	8/19/21	98	98	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
271	Main, Station 3 + 00 on Mesa Top Drive, 20' below grade.	8/19/21	98	98	8.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
272	Main, Station 3 + 00 on Mesa Top Drive, 18' below grade.	8/19/21	98	98	9.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
273	Main, Station 3 + 00 on Mesa Top Drive, 16' below grade.	8/19/21	99	98	7.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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<b>Project:</b> Forest Lakes Residential Development, Filing 6	<b>Tested By:</b> J. Claton	S = standard, ASTM D-698
<b>Subject:</b> Sanitary Sewer	<b>Report Date:</b> 10-20-2021	T = AASHTO, T-180

Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
274	Main, Station 3 + 00 on Mesa Top Drive, 14' below grade.	8/19/21	99	98	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
275	Main, Station 3 + 00 on Mesa Top Drive, 12' below grade.	8/19/21	98	98	8.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
276	Main, Station 3 + 00 on Mesa Top Drive, 10' below grade.	8/20/21	99	98	7.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
277	Main, Station 3 + 00 on Mesa Top Drive, 8' below grade.	8/20/21	98	95	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
278	Main, Station 3 + 00 on Mesa Top Drive, 6' below grade.	8/20/21	97	95	7.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
279	Main, Station 3 + 00 on Mesa Top Drive, 4' below grade.	8/20/21	97	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
280	Main, Station 3 + 00 on Mesa Top Drive, 2' below grade.	8/20/21	97	95	7.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
281	Main, Station 3 + 00 on Mesa Top Drive, at grade.	8/20/21	96	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

**Comments:**

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

All dimensions are approximate. Cl. = Centerline



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FIELD DENSITY RESULTS

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