



ENTECH
ENGINEERING, INC.

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

September 21, 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. 10, Tests 282 – 433

Dear Mr. Boulton,

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

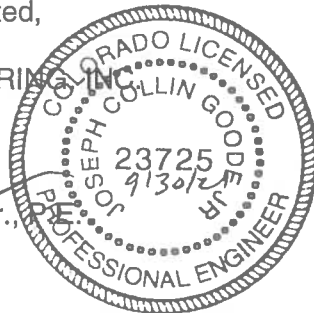
Density testing on this site was performed on August 18, 2021 – August 27, 2021. The density testing indicates that the materials have been adequately compacted at the depths and in the locations noted. Results of the density tests are enclosed with this letter.

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_2cl10.doc

Client: FLRD #6	Entech Job #: 201326.2	Proctor Value Key: M = modified, ASTM D-1557
Project: Forest Lakes Residential Development, Filing 6	Tested By: B. Ooley/J. Claton	S = standard, ASTM D-698
Subject: Sanitary Sewer	Report Date: 09-30-2021	T = AASHTO, T-180

Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
282	Manhole 21, Mesa Top Drive, 6' below grade.	8/18/21	98	95	7.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
283	Manhole 21, Mesa Top Drive, 4' below grade.	8/18/21	97	95	5.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
284	Manhole 21, Mesa Top Drive, 2' below grade.	8/18/21	98	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
285	Manhole 21, Mesa Top Drive, at grade.	8/18/21	97	95	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
286	Main Station 5 + 10, 6' below grade.	8/18/21	98	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
287	Main Station 5 + 10, 4' below grade.	8/18/21	97	95	5.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
288	Main Station 5 + 10, 2' below grade.	8/18/21	98	95	6.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
289	Main Station 5 + 10, at grade.	8/18/21	96	95	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
290	Manhole 22, Mesa Top Drive, 6' below grade.	8/18/21	98	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
291	Manhole 22, Mesa Top Drive, 4' below grade.	8/18/21	97	95	5.7	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

 <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 #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
292	Manhole 22, Mesa Top Drive, 2' below grade.	8/18/21	98	95	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
293	Manhole 22, Mesa Top Drive, at grade.	8/18/21	96	95	7.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
294	Sanitary Sewer - Manhole 18, 2' north, 22' below grade.	8/23/21	98	98	5.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
295	Sanitary Sewer - Manhole 18, 1' west, 20' below grade.	8/23/21	98	98	6.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
296	Sanitary Sewer - Manhole 18, 1' south, 18' below grade.	8/24/21	98	98	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
297	Sanitary Sewer - Manhole 18, 1' east, 16' below grade.	8/24/21	99	98	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
298	Sanitary Sewer - Manhole 18, 1' north, 14' below grade.	8/25/21	99	98	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
299	Sanitary Sewer - Manhole 18, 2' west, 12' below grade.	8/25/21	98	98	5.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
300	Sanitary Sewer - Manhole 18, 2' east, 10' below grade.	8/26/21	98	98	5.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
301	Sanitary Sewer - Manhole 18, 1' south, 8' below grade.	8/26/21	97	98	7.0	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
302	Sanitary Sewer - Manhole 18, 2' west, 6' below grade.	8/27/21	97	98	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
303	Sanitary Sewer - Manhole 18, 1' east, 4' below grade.	8/27/21	96	98	6.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
304	Sanitary Sewer - Manhole 20, 1' east, 22' below grade.	8/23/21	99	98	6.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
305	Sanitary Sewer - Manhole 20, 1' west, 20' below grade.	8/23/21	99	98	7.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
306	Sanitary Sewer - Manhole 20, 2' north, 18' below grade.	8/24/21	98	98	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
307	Sanitary Sewer - Manhole 20, 1' south, 16' below grade.	8/24/21	99	98	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
308	Sanitary Sewer - Manhole 20, 2' west, 14' below grade.	8/25/21	98	98	5.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
309	Sanitary Sewer - Manhole 20, 1' north, 12' below grade.	8/25/21	99	98	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
310	Sanitary Sewer - Manhole 20, 1' east, 10' below grade.	8/26/21	98	98	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
311	Sanitary Sewer - Manhole 20, 2' south, 8' below grade.	8/26/21	98	95	7.3	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
312	Sanitary Sewer - Manhole 20, 1' north, 6' below grade.	8/27/21	97	95	6.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
313	Sanitary Sewer - Manhole 20, 2' east, 4' below grade.	8/27/21	97	95	5.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
314	Sanitary Sewer Main - Station 1 + 10 on Mesa Top Drive, 22' below grade.	8/23/21	99	98	5.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
315	Sanitary Sewer Main - Station 1 + 10 on Mesa Top Drive, 20' below grade.	8/23/21	98	98	6.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
316	Sanitary Sewer Main - Station 1 + 10 on Mesa Top Drive, 18' below grade.	8/24/21	99	98	6.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
317	Sanitary Sewer Main - Station 1 + 10 on Mesa Top Drive, 16' below grade.	8/24/21	98	98	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
318	Sanitary Sewer Main - Station 1 + 10 on Mesa Top Drive, 14' below grade.	8/25/21	99	98	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
319	Sanitary Sewer Main - Station 1 + 10 on Mesa Top Drive, 12' below grade.	8/25/21	98	98	5.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
320	Sanitary Sewer Main - Station 1 + 10 on Mesa Top Drive, 10' below grade.	8/26/21	98	98	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
321	Sanitary Sewer Main - Station 1 + 10 on Mesa Top Drive, 8' below grade.	8/26/21	97	95	6.0	SM	M - 130.3 @ 7.6	<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
322	Sanitary Sewer Main - Station 1 + 10 on Mesa Top Drive, 6' below grade.	8/27/21	97	95	6.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
323	Sanitary Sewer Main - Station 1 + 10 on Mesa Top Drive, 4' below grade.	8/27/21	98	95	5.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
324	Sanitary Sewer - Manhole 4, 1' north, 22' below grade.	8/23/21	98	98	7.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
325	Sanitary Sewer - Manhole 4, 1' west, 20' below grade.	8/23/21	98	98	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
326	Sanitary Sewer - Manhole 4, 1' south, 18' below grade.	8/24/21	99	98	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
327	Sanitary Sewer - Manhole 4, 1' east, 16' below grade.	8/24/21	99	98	6.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
328	Sanitary Sewer - Manhole 4, 2' north, 14' below grade.	8/25/21	99	98	5.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
329	Sanitary Sewer - Manhole 4, 2' east, 12' below grade.	8/25/21	98	98	6.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
330	Sanitary Sewer - Manhole 4, 2' south, 10' below grade.	8/26/21	98	98	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
331	Sanitary Sewer - Manhole 4, 2' west, 8' below grade.	8/26/21	97	95	7.4	SM	M - 130.3 @ 7.6	<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
332	Sanitary Sewer - Manhole 4, 2' north, 6' below grade.	8/27/21	97	95	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
333	Sanitary Sewer - Manhole 4, 1' south, 4' below grade.	8/27/21	96	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
334	Sanitary Sewer - Manhole 4, 1' north, 2' below grade.	8/30/21	97	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
335	Sanitary Sewer - Manhole 4, 1' south, at grade.	8/30/21	96	95	9.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
336	Sanitary Sewer - Manhole 18, 1' east, 2' below grade.	8/30/21	96	95	7.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
337	Sanitary Sewer - Manhole 18, 1' west, at grade.	8/30/21	95	95	8.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
338	Sanitary Sewer - Manhole 20, 1' north, 2' below grade.	8/30/21	95	95	8.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
339	Sanitary Sewer - Manhole 20, 1' west, at grade.	8/30/21	96	95	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
340	Sanitary Sewer Main - Station 1 + 10 on Mesa Top Drive, 2' below grade.	8/30/21	96	95	9.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
341	Sanitary Sewer Main - Station 1 + 10 on Mesa Top Drive, at grade.	8/30/21	97	95	9.2	SM	M - 130.3 @ 7.6	<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 <input checked="" type="checkbox"/> = Fail
342	Sanitary Sewer - Manhole 16, 1' north, 22' below grade.	8/31/21	98	98	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
343	Sanitary Sewer - Manhole 16, 1' west, 20' below grade.	8/31/21	98	98	7.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
344	Sanitary Sewer - Manhole 16, 1' east, 18' below grade.	8/31/21	99	98	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
345	Sanitary Sewer - Manhole 16, 1' south, 16' below grade.	9/1/21	99	98	7.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
346	Sanitary Sewer - Manhole 16, 2' north, 14' below grade.	9/1/21	98	98	7.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
347	Sanitary Sewer - Manhole 16, 2' west, 12' below grade.	9/1/21	99	98	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
348	Sanitary Sewer - Manhole 16, 2' east, 10' below grade.2	9/2/21	99	98	9.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
349	Sanitary Sewer - Manhole 16, 2' south, 8' below grade.	9/2/21	98	95	8.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
350	Sanitary Sewer - Manhole 16, 1' north, 6' below grade.	9/2/21	96	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
351	Sanitary Sewer - Manhole 16, 1' west, 4' below grade.	9/3/21	97	95	8.4	SM	M - 130.3 @ 7.6	<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
352	Sanitary Sewer Main - Station 12 + 00, between Manhole 16 & 15, 22' below grade.	8/31/21	98	98	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
353	Sanitary Sewer Main - Station 12 + 00, between Manhole 16 & 15, 20' below grade.	8/31/21	98	98	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
354	Sanitary Sewer Main - Station 12 + 00, between Manhole 16 & 15, 18' below grade.	8/31/21	99	98	6.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
355	Sanitary Sewer Main - Station 12 + 00, between Manhole 16 & 15, 16' below grade.	9/1/21	99	98	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
356	Sanitary Sewer Main - Station 12 + 00, between Manhole 16 & 15, 14' below grade.	9/1/21	99	98	7.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
357	Sanitary Sewer Main - Station 12 + 00, between Manhole 16 & 15, 12' below grade.	9/1/21	98	98	7.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
358	Sanitary Sewer Main - Station 12 + 00, between Manhole 16 & 15, 10' below grade.	9/2/21	98	98	6.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
359	Sanitary Sewer Main - Station 12 + 00, between Manhole 16 & 15, 8' below grade.	9/2/21	97	95	5.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
360	Sanitary Sewer Main - Station 12 + 00, between Manhole 16 & 15, 6' below grade.	9/2/21	96	95	6.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
361	Sanitary Sewer Main - Station 12 + 00, between Manhole 16 & 15, 4' below grade.	9/3/21	96	95	7.3	SM	M - 130.3 @ 7.6	<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
362	Sanitary Sewer Main - Station 14 + 00, between Manhole 16 & 4, 22' below grade.	8/31/21	99	98	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
363	Sanitary Sewer Main - Station 14 + 00, between Manhole 16 & 4, 20' below grade.	8/31/21	99	98	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
364	Sanitary Sewer Main - Station 14 + 00, between Manhole 16 & 4, 18' below grade.	8/31/21	98	98	8.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
365	Sanitary Sewer Main - Station 14 + 00, between Manhole 16 & 4, 16' below grade.	9/1/21	99	98	9.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
366	Sanitary Sewer Main - Station 14 + 00, between Manhole 16 & 4, 14' below grade.	9/1/21	99	98	7.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
367	Sanitary Sewer Main - Station 14 + 00, between Manhole 16 & 4, 12' below grade.	9/1/21	98	98	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
368	Sanitary Sewer Main - Station 14 + 00, between Manhole 16 & 4, 10' below grade.	9/2/21	98	98	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
369	Sanitary Sewer Main - Station 14 + 00, between Manhole 16 & 4, 8' below grade.	9/2/21	95	95	9.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
370	Sanitary Sewer Main - Station 14 + 00, between Manhole 16 & 4, 6' below grade.	9/2/21	97	95	7.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
371	Sanitary Sewer Main - Station 14 + 00, between Manhole 16 & 4, 4' below grade.	9/3/21	97	95	6.8	SM	M - 130.3 @ 7.6	<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
372	Sanitary Sewer Main - Station 14 + 00, between Manhole 16 & 4, 2' below grade.	9/3/21	96	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
373	Sanitary Sewer Main - Station 14 + 00, between Manhole 16 & 4, at grade.	9/3/21	95	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
374	Sanitary Sewer Main - Station 14 + 00, between Manhole 16 & 4, 2' below grade.	9/3/21	97	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
375	Sanitary Sewer Main - Station 14 + 00, between Manhole 16 & 4, at grade.	9/3/21	97	95	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
376	Sanitary Sewer Main - Station 12 + 00, between Manhole 16 & 15, 2' below grade.	9/3/21	98	95	7.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
377	Sanitary Sewer Main - Station 12 + 00, between Manhole 16 & 15, at grade.	9/3/21	97	95	8.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
378	Sanitary Sewer Main Line - Station 10 + 00, between Manhole 14 & 15, 22' below grade.	9/6/21	99	98	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
379	Sanitary Sewer Main Line - Station 10 + 00, between Manhole 14 & 15, 20' below grade.	9/6/21	98	98	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
380	Sanitary Sewer Main Line - Station 10 + 00, between Manhole 14 & 15, 16' below grade.	9/6/21	98	98	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
381	Sanitary Sewer Main Line - Station 10 + 00, between Manhole 14 & 15, 16' below grade.	9/6/21	99	98	7.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

Comments:

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FIELD DENSITY RESULTS

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

Client: FLRD #6	Entech Job #: 201326.2	Proctor Value Key: M = modified, ASTM D-1557
Project: Forest Lakes Residential Development, Filing 6	Tested By: B. Ooley/J. Claton	S = standard, ASTM D-698
Subject: Sanitary Sewer	Report Date: 09-30-2021	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
382	Sanitary Sewer Main Line - Station 10 + 00, between Manhole 14 & 15, 14' below grade.	9/6/21	98	98	8.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
383	Sanitary Sewer Main Line - Station 10 + 00, between Manhole 14 & 15, 12' below grade.	9/7/21	99	98	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
384	Sanitary Sewer Main Line - Station 10 + 00, between Manhole 14 & 15, 10' below grade.	9/7/21	99	98	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
385	Sanitary Sewer Main Line - Station 10 + 00, between Manhole 14 & 15, 8' below grade.	9/7/21	98	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
386	Sanitary Sewer Main Line - Station 10 + 00, between Manhole 14 & 15, 6' below grade.	9/7/21	97	95	6.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
387	Sanitary Sewer Main Line - Station 10 + 00, between Manhole 14 & 15, 4' below grade.	9/7/21	96	95	5.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
388	Sanitary Sewer - Manhole 15, 1' north, 22' below grade.	9/6/21	98	98	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
389	Sanitary Sewer - Manhole 15, 1' west, 20' below grade.	9/6/21	98	98	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
390	Sanitary Sewer - Manhole 15, 1' east, 18' below grade.	9/6/21	99	98	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
391	Sanitary Sewer - Manhole 15, 1' south, 16' below grade.	9/6/21	99	98	8.7	SM	M - 130.3 @ 7.6	<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
392	Sanitary Sewer - Manhole 15, 2' north, 14' below grade.	9/6/21	99	98	9.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
393	Sanitary Sewer - Manhole 15, 2' east, 12' below grade.	9/7/21	98	98	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
394	Sanitary Sewer - Manhole 15, 2' west, 10' below grade.	9/7/21	98	98	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
395	Sanitary Sewer - Manhole 15, 2' south, 8' below grade.	9/7/21	97	95	6.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
396	Sanitary Sewer - Manhole 15, 1' north, 6' below grade.	9/7/21	97	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
397	Sanitary Sewer - Manhole 15, 1' south, 4' below grade.	9/7/21	96	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
398	Sanitary Sewer Main Line - Station 10 + 00, between Manhole 14 and 15, 2' below grade.	9/8/21	96	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
399	Sanitary Sewer Main Line - Station 10 + 00, between Manhole 14 and 15, at grade.	9/8/21	95	95	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
400	Sanitary Sewer Manhole 15, 2' east, 2' below grade.	9/8/21	97	95	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
401	Sanitary Sewer Manhole 15, 1' north, at grade.	9/8/21	96	95	7.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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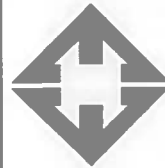
Client: FLRD #6	Entech Job #: 201326.2	Proctor Value Key: M = modified, ASTM D-1557
Project: Forest Lakes Residential Development, Filing 6	Tested By: B. Ooley/J. Claton	S = standard, ASTM D-698
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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
402	Sanitary Sewer Main Line - Station 8 + 75, 2' below grade.	9/9/21	96	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
403	Sanitary Sewer Main Line - Station 8 + 75, at grade.	9/9/21	97	95	8.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
404	Sanitary Sewer Main Line - Station 8 + 75, 22' below grade	9/8/21	98	98	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
405	Sanitary Sewer Main Line - Station 8 + 75, 20' below grade	9/8/21	99	98	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
406	Sanitary Sewer Main Line - Station 8 + 75, 18' below grade	9/8/21	98	98	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
407	Sanitary Sewer Main Line - Station 8 + 75, 16' below grade	9/8/21	98	98	9.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
408	Sanitary Sewer Main Line - Station 8 + 75, 14' below grade	9/8/21	98	98	9.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
409	Sanitary Sewer Main Line - Station 8 + 75, 12' below grade	9/8/21	99	98	9.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
410	Sanitary Sewer Main Line - Station 8 + 75, 10' below grade	9/9/21	99	98	8.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
411	Sanitary Sewer Main Line - Station 8 + 75, 8' below grade	9/9/21	97	95	7.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

Comments:

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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
412	Sanitary Sewer Main Line - Station 8 + 75, 6' below grade	9/9/21	97	95	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
413	Sanitary Sewer Main Line - Station 8 + 75, 4' below grade	9/9/21	96	95	7.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
414	Station 13 + 00 on Mesa Top Drive South, 17' below grade.	9/9/21	99	98	7.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
415	Station 13 + 00 on Mesa Top Drive South, 15' below grade.	9/9/21	98	98	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
416	Station 13 + 00 on Mesa Top Drive South, 13' below grade.	9/10/21	99	98	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
417	Station 13 + 00 on Mesa Top Drive South, 11' below grade.	9/10/21	99	98	7.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
418	Station 13 + 00 on Mesa Top Drive South, 9' below grade.	9/10/21	97	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
419	Station 13 + 00 on Mesa Top Drive South, 7' below grade.	9/10/21	96	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
420	Station 13 + 00 on Mesa Top Drive South, 5' below grade.	9/10/21	95	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
421	Station 13 + 00 on Mesa Top Drive South, 3' below grade.	9/10/21	98	95	6.2	SM	M - 130.3 @ 7.6	<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
422	Station 13 + 00 on Mesa Top Drive South, 1' below grade.	9/10/21	95	95	6.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
423	Station 13 + 00 on Mesa Top Drive South, at grade.	9/10/21	97	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
424	Station 11 + 00 on Mesa Top Drive South, 17' below grade.	9/11/21	99	98	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
425	Station 11 + 00 on Mesa Top Drive South, 15' below grade.	9/11/21	99	98	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
426	Station 11 + 00 on Mesa Top Drive South, 13' below grade.	9/11/21	98	98	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
427	Station 11 + 00 on Mesa Top Drive South, 11' below grade.	9/11/21	98	98	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
428	Station 11 + 00 on Mesa Top Drive South, 9' below grade.	9/11/21	96	95	6.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
429	Station 11 + 00 on Mesa Top Drive South, 7' below grade.	9/11/21	97	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
430	Station 11 + 00 on Mesa Top Drive South, 5' below grade.	9/11/21	95	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
431	Station 11 + 00 on Mesa Top Drive South, 3' below grade.	9/11/21	97	95	7.4	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
432	Station 11 + 00 on Mesa Top Drive South, 1' below grade.	9/11/21	97	95	6.9	SM	M - 130.3 @ 7.6	<input checked="" type="checkbox"/>
433	Station 11 + 00 on Mesa Top Drive South, at grade.	9/11/21	97	95	8.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

Comments:

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 <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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