



**ENTECH**  
ENGINEERING, INC.

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

November 12, 2021

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

Attn: Jim Boulton

Re: Density Testing – Storm Sewer  
Forest Lakes Residential Development, Filing 6  
Colorado Springs, Colorado  
Report No. 2, Tests 62 – 123

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 October 24, 2021 – October 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,  
President



JCG/kw

Enclosure

Entech Job No. 201326

F:\AA projects\2020\201326-FLRD-Forest Lakes F6-110-ConMat\201326\_4cl2.doc

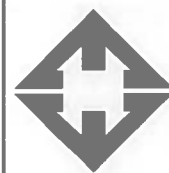
<b>Client:</b> FLRD #6	<b>Entech Job #:</b> 201326.4	<b>Proctor Value Key:</b> M = modified, ASTM D-1557
<b>Project:</b> Forest Lakes Residential Development, Filing 6	<b>Tested By:</b> J. Claton	S = standard, ASTM D-698
<b>Subject:</b> Storm Sewer	<b>Report Date:</b> 11-12-2021	T = AASHTO, T-180

Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
62	Storm Manhole "D", Station 8 + 92 on Mesa Top Drive South, 6' below grade.	10/25/21	95	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
63	Storm Manhole "D", Station 8 + 92 on Mesa Top Drive South, 4' below grade.	10/25/21	97	95	7.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
64	Storm Manhole "D", Station 8 + 92 on Mesa Top Drive South, 2' below grade.	10/25/21	96	95	7.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
65	Storm Manhole "D", Station 8 + 92 on Mesa Top Drive South, at grade.	10/25/21	97	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
66	Storm Manhole "C", Station 7 + 40 on Mesa Top Drive South, 5' below grade.	10/25/21	97	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
67	Storm Manhole "C", Station 7 + 40 on Mesa Top Drive South, 3' below grade.	10/25/21	96	95	5.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
68	Storm Manhole "C", Station 7 + 40 on Mesa Top Drive South, 1' below grade.	10/25/21	95	95	5.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
69	Storm Manhole "C", Station 7 + 40 on Mesa Top Drive South, at grade.	10/25/21	96	95	7.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
70	Storm Main, Station 7 + 00 on Mesa Top Drive South, 6' below grade.	10/25/21	97	95	5.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
71	Storm Main, Station 7 + 00 on Mesa Top Drive South, 4' below grade.	10/25/21	97	95	6.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

**Comments:**

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

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FIELD DENSITY RESULTS

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

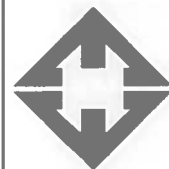
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<b>Subject:</b> Storm Sewer	<b>Report Date:</b> 11-12-2021	T = AASHTO, T-180

Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
72	Storm Main, Station 7 + 00 on Mesa Top Drive South, 2' below grade.	10/25/21	98	95	6.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
73	Storm Main, Station 7 + 00 on Mesa Top Drive South, at grade.	10/25/21	96	95	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
74	Storm Main, Station 4 + 75 on Mesa Top Drive South, 6' below grade.	10/25/21	98	95	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
75	Storm Main, Station 4 + 75 on Mesa Top Drive South, 4' below grade.	10/25/21	98	95	7.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
76	Storm Main, Station 4 + 75 on Mesa Top Drive South, 2' below grade.	10/25/21	96	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
77	Storm Main, Station 4 + 75 on Mesa Top Drive South, at grade.	10/25/21	96	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
78	Inlet on southeast corner of Mesa Top Drive South, Lot 5, 5' east, 2' north, Type "R" inlet, 1' west, 5' below grade.	10/25/21	97	95	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
79	Inlet on southeast corner of Mesa Top Drive South, Lot 5, 5' east, 2' north, Type "R" inlet, 1' north, 3' below grade.	10/25/21	96	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
80	Inlet on southeast corner of Mesa Top Drive South, Lot 5, 5' east, 2' north, Type "R" inlet, 1' south, 1' below grade.	10/25/21	96	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
81	Inlet on southeast corner of Mesa Top Drive South, Lot 5, 5' east, 2' north, Type "R" inlet, 1' east, 1' below grade.	10/25/21	96	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

**Comments:**

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FIELD DENSITY RESULTS

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

<b>Client:</b> FLRD #6	<b>Entech Job #:</b> 201326.4	<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> Storm Sewer	<b>Report Date:</b> 11-12-2021	T = AASHTO, T-180

Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
82	Inlet on Mesa Top Drive North, Lot 6, 5' south, 5' west, Type "R" inlet, 1' north, 6' below grade.	10/25/21	95	95	7.0	SM	M - 130.3 @ 7.6	✓ = Pass ✗ = Fail
83	Inlet on Mesa Top Drive North, Lot 6, 5' south, 5' west, Type "R" inlet, 1' west, 4' below grade.	10/25/21	97	95	7.9	SM	M - 130.3 @ 7.6	
84	Inlet on Mesa Top Drive North, Lot 6, 5' south, 5' west, Type "R" inlet, 1' east, 2' below grade.	10/25/21	96	95	8.4	SM	M - 130.3 @ 7.6	
85	Inlet on Mesa Top Drive North, Lot 6, 5' south, 5' west, Type "R" inlet, 11' north, at grade.	10/25/21	98	95	8.3	SM	M - 130.3 @ 7.6	
86	Inlet Type "R", southwest corner of Lot #6 on Mesa Top Drive North, 15' south, 5' west of Lot #6, 6' below grade.	10/25/21	96	95	8.1	SM	M - 130.3 @ 7.6	
87	Inlet Type "R", southwest corner of Lot #6 on Mesa Top Drive North, 15' south, 5' west of Lot #6, 4' below grade.	10/25/21	96	95	8.2	SM	M - 130.3 @ 7.6	
88	Inlet Type "R", southwest corner of Lot #6 on Mesa Top Drive North, 1' south, 5' west of Lot #6, 2' below grade.	10/25/21	98	95	8.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
89	Inlet Type "R", southwest corner of Lot #6 on Mesa Top Drive North, 1' south, 1' east of Lot #6, at grade.	10/25/21	97	95	9.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
90	Type "R" Sump Inlet, 5' north, 5' west of northwest corner of Lot #47, on Mesa Top Drive South, 1' east, 6' below grade.	10/25/21	98	95	7.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
91	Type "R" Sump Inlet, 5' north, 5' west of northwest corner of Lot #47, on Mesa Top Drive South, 1' north, 4' below grade.	10/25/21	95	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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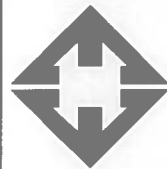
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<b>Subject:</b> Storm Sewer	<b>Report Date:</b> 11-12-2021	T = AASHTO, T-180

Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
92	Type "R" Sump Inlet, 5' north, 5' west of northwest corner of Lot #47, on Mesa Top Drive South, 1' west, 2' below grade.	10/25/21	96	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
93	Type "R" Sump Inlet, 5' north, 5' west of northwest corner of Lot #47, on Mesa Top Drive South, 1' south, at grade.	10/25/21	97	95	6.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
94	Inlet located on Mesa Top Drive South, 15' north, 5' west of southwest corner of Lot #59, 6' below grade.	10/26/21	96	95	5.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
95	Inlet located on Mesa Top Drive South, 15' north, 5' west of southwest corner of Lot #59, 4' below grade.	10/26/21	96	95	5.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
96	Inlet located on Mesa Top Drive South, 15' north, 5' west of southwest corner of Lot #59, 2' below grade.	10/26/21	97	95	6.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
97	Inlet located on Mesa Top Drive South, 15' north, 5' west of southwest corner of Lot #59, at grade.	10/26/21	96	95	5.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
98	Inlet located on Mesa Top Drive South, 15' north, 15' west of southwest corner of Lot #59, 6' below grade.	10/26/21	97	95	5.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
99	Inlet located on Mesa Top Drive South, 15' north, 15' west of southwest corner of Lot #59, 4' below grade.	10/26/21	96	95	6.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
100	Inlet located on Mesa Top Drive South, 15' north, 15' west of southwest corner of Lot #59, 2' below grade.	10/26/21	96	95	5.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
101	Inlet located on Mesa Top Drive South, 15' north, 15' west of southwest corner of Lot #59, at grade.	10/26/21	98	95	6.5	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
102	Station 2 + 50, on storm main "A", located north of Lot #51, 6' below grade.	10/26/21	96	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
103	Station 2 + 50 on Storm Main on Main "A", located on north Lot #51, 2' below grade.	10/26/21	96	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
104	Station 2 + 50 on Storm Main on Main "A", located on north Lot #51, 2' below grade.	10/26/21	96	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
105	Station 2 + 50 on Storm Main on Main "A", located on north Lot #51, at grade.	10/26/21	95	95	5.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
106	Storm Manhole "B", Station 5 + 13, on Mesa Top Drive South, 5' below grade.	10/26/21	97	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
107	Storm Manhole "B", Station 5 + 13, on Mesa Top Drive South, 3' below grade.	10/26/21	97	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
108	Storm Manhole "B", Station 5 + 13, on Mesa Top Drive South, 1' below grade.	10/26/21	97	95	5.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
109	Storm Manhole "B", Station 5 + 13, on Mesa Top Drive South, at grade.	10/26/21	96	95	6.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
110	Sump Inlet Type "R", 15' west, 5' south of northwest corner of Lot #50 on Mesa Top Drive South, 5' below grade.	10/27/21	95	95	5.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
111	Sump Inlet Type "R", 15' west, 5' south of northwest corner of Lot #50 on Mesa Top Drive South, 3' below grade.	10/27/21	96	95	5.6	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
112	Sump Inlet Type "R", 15' west, 5' south of northwest corner of Lot #50 on Mesa Top Drive South, 1' below grade.	10/27/21	95	95	6.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
113	Sump Inlet Type "R", 15' west, 5' south of northwest corner of Lot #50 on Mesa Top Drive South, at grade.	10/27/21	96	95	6.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
114	Sump Inlet Type "R", 5' west, 5' south of northwest corner of Lot #50 on Mesa Top Drive South, 5' below grade.	10/27/21	96	95	6.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
115	Sump Inlet Type "R", 5' west, 5' south of northwest corner of Lot #50 on Mesa Top Drive South, 3' below grade.	10/27/21	98	95	6.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
116	Sump Inlet Type "R", 5' west, 5' south of northwest corner of Lot #50 on Mesa Top Drive South, 1' below grade.	10/27/21	97	95	5.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
118	Storm Manhole "A" on Mesa Top Drive South, Station 3 + 92, 10' below grade.	10/27/21	98	98	5.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
119	Storm Manhole "A" on Mesa Top Drive South, Station 3 + 92, 8' below grade.	10/27/21	98	95	6.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
120	Storm Manhole "A" on Mesa Top Drive South, Station 3 + 92, 6' below grade.	10/27/21	96	95	5.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
121	Storm Manhole "A" on Mesa Top Drive South, Station 3 + 92, 4' below grade.	10/27/21	97	95	6.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
122	Storm Manhole "A" on Mesa Top Drive South, Station 3 + 92, 2' below grade.	10/27/21	95	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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123	Storm Manhole "A" on Mesa Top Drive South, Station 3 + 92, at grade.	10/27/21	97	95	6.4	SM	M - 130.3 @ 7.6	<input checked="" type="checkbox"/>
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