



ENTECH
ENGINEERING, INC.

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

October 30, 2020

FLRD #5
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Attn: Jim Boulton

Re: Asphalt Testing – Roadway
Forest Lakes Residential Development, Filing 5
Colorado Springs, Colorado
Report No. 1, Tests 1 – 25

Dear Mr. Boulton,

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

Asphalt testing on this site was performed on October 14 – 17, 2020. The tests indicate that the materials have been properly compacted at the depths and locations noted. Results of the asphalt tests are attached 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.

Mark H. Hauschild, P.E.
Senior Engineer

MHH/bo

Enclosure

Entech Job No. 192273

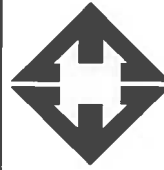
F:\AA projects\2019\192273-FLRD #5-Forest Lakes Residential Development Filing #5-110-ConMat\192273_gasphdenc1.doc



Client: FLRD #5	Entech Job #: 192273.6	Maximum Density Key: M = Marshall Value R = Rice Value
Project: Forest Lakes Residential Development, Filing 5	Tested By: S. Reardanz	
Subject: Asphalt Roadway	Report Date: 10-29-2020	

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Field Density	Maximum Density	Pass/Fail <input checked="" type="checkbox"/> = Fail
1	7' south of edge of pavement and 200' east of intersection with Forest Lakes Drive, Mesa Top Road, first lift.	10/14/20	95	92-96	143.1	R - 151.2	<input type="checkbox"/>
2	4' south of edge of pavement and 600' east of intersection with Forest Lakes Drive, Mesa Top Road, first lift.	10/14/20	94	92-96	142.5	R - 151.2	<input type="checkbox"/>
3	6' south of edge of pavement and 900' east of intersection with Forest Lakes Drive, Mesa Top Road, first lift.	10/14/20	94	92-96	141.9	R - 151.2	<input type="checkbox"/>
4	4' north of edge of pavement and 15' east of property line for Lots 1 & 2, Forest Lakes Drive, first lift.	10/14/20	94	92-96	142.3	R - 151.2	<input type="checkbox"/>
5	5' north of edge of pavement on property line for Lots 8 & 9, Forest Lakes Drive, first lift.	10/14/20	94	92-96	141.8	R - 151.2	<input type="checkbox"/>
6	3' north of edge of pavement on property line for Lots 15 & 16, Forest Lakes Drive, first lift.	10/14/20	95	92-96	143.5	R - 151.2	<input type="checkbox"/>
7	(Longitudinal Joint) 1' south of centerline of road and 400' east of intersection with Forest Lakes Drive, Mesa Top Road, first lift.	10/14/20	94	90	141.5	R - 151.2	<input type="checkbox"/>
8	7' north of edge of pavement and 750' east of intersection with Forest Lakes Drive, Mesa Top Road, first lift.	10/14/20	94	92-96	142.4	R - 151.2	<input type="checkbox"/>
9	(Transverse Joint) 6' south of edge of pavement and 150' west of west boundary line of Lot 15 (Forest Lakes Filing 1), Forest Lakes Drive, first lift.	10/14/20	94	90	141.4	R - 151.2	<input type="checkbox"/>
10	5' south of edge of pavement on property line for Lots 32 & 33, Forest Lakes Drive, first lift.	10/14/20	95	92-96	143.2	R - 151.2	<input type="checkbox"/>

All dimensions are approximate. Cl. = Centerline



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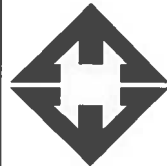
ASPHALT TESTING RESULTS

Mark H. Haasehild, P.E.

Client: FLRD #5	Entech Job #: 192273.6	Maximum Density Key: M = Marshall Value
Project: Forest Lakes Residential Development, Filing 5	Tested By: S. Reardanz	R = Rice Value
Subject: Asphalt Roadway	Report Date: 10-29-2020	

Test #	Location	Testing Date	Percent Compaction	Percent Required	Field Density	Maximum Density	Pass/Fail
11	7' south of edge of pavement on property line for Lots 28 & 29, Forest Lakes Drive, first lift.	10/14/20	95	92-96	143.0	R - 151.2	<input type="checkbox"/>
12	2' south of edge of pavement on property line for Lots 23 & 24, Forest Lakes Drive, first lift.	10/14/20	93	92-96	141.0	R - 151.2	<input type="checkbox"/>
13	7' south of edge of pavement and 150' southwest of intersection with Forest Lakes Drive, Mesa Top Road, second lift.	10/16/20	94	92-96	142.5	R - 151.2	<input type="checkbox"/>
14	(Transverse Joint) 5' south of edge of pavement and 90' northeast of intersection with Forest Lakes Drive, Mesa Top Road, second lift.	10/16/20	94	90	142.6	R - 151.2	<input type="checkbox"/>
15	5' south of edge of pavement and 500' east of intersection with Forest Lakes Drive, Mesa Top Road, second lift.	10/16/20	95	92-96	143.4	R - 151.2	<input type="checkbox"/>
16	7' south of edge of pavement and 1000' east of intersection with Forest Lakes Drive, Mesa Top Road, second lift.	10/16/20	94	92-96	142.4	R - 151.2	<input type="checkbox"/>
17	4' north of edge of pavement and 300' east of intersection with Forest Lakes Drive, Mesa Top Road, second lift.	10/17/20	95	92-96	143.5	R - 151.2	<input type="checkbox"/>
18	2' north of edge of pavement and 750' east of intersection with Forest Lakes Drive, Mesa Top Road, second lift.	10/17/20	94	92-96	142.8	R - 151.2	<input type="checkbox"/>
19	4' south of edge of pavement and 10' west of property line for Lots 24 & 25, Forest Lakes Drive, second lift.	10/17/20	95	92-96	143.0	R - 151.2	<input type="checkbox"/>
20	6' south of edge of pavement and 10' east of property line for Lot 29 & Tract A, Forest Lakes Drive, second lift.	10/17/20	95	92-96	144.3	R - 151.2	<input type="checkbox"/>

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Client: FLRD #5	Entech Job #: 192273.6	Maximum Density Key: M = Marshall Value R = Rice Value
Project: Forest Lakes Residential Development, Filing 5	Tested By: S. Reardanz	
Subject: Asphalt Roadway	Report Date: 10-29-2020	

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Field Density	Maximum Density	Pass/Fail
21	6' south of edge of pavement and 30' east of property line for Lots 32 & 33, Forest Lakes Drive, second lift.	10/17/20	95	92-96	143.8	R - 151.2	<input checked="" type="checkbox"/> = Pass <input type="checkbox"/> = Fail
22	4' north of edge of pavement on property line for Lots 10 & 11, Forest Lakes Drive, second lift.	10/17/20	95	92-96	143.3	R - 151.2	<input type="checkbox"/>
23	3' north of edge of pavement on property line for Lots 16 & 17, Forest Lakes Drive, second lift.	10/17/20	95	92-96	143.8	R - 151.2	<input type="checkbox"/>
24	(Longitudinal Joint) 1' south of centerline of road and 10' east of property line for Lots 5 & 6, Forest Lakes Drive, second lift.	10/17/20	94	90	142.3	R - 151.2	<input type="checkbox"/>
25	5' north of edge of pavement and 100' east of east boundary for Lot 1, Forest Lakes Drive, second lift.	10/17/20	94	92-96	141.7	R - 151.2	<input type="checkbox"/>

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ASPHALT TESTING RESULTS

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