



REPORT OF SOILS FIELD COMPACTION TESTING

CLIENT: Ludlow Construction Co., Inc.
 19 Carmelina's Circle
 Ludlow, MA 01056
 Attn: Mr. Mike Pio

PROJECT: Durham Meadows Waterline
 Durham, CT

DATE: June 8, 2020

REPORT #: 19-75-012-074 Page 1 of 9

General Location: Intersection South Main Street (Route 17) & Old Cemetery Road, Waterline Trench
Field Rep: Gregory Vachon
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 63°F
Weather: Sunny
Soil ID#: 3519-592
Soil Type: Light Gray Gravel w/ Sand & Silt (3.5" Gravel)
Proctor Sample Source: Haynes Group

Proctor Value: 141.4 **lbs/ft³** **Optimum Moisture:** 4.6%
Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
1	6"/ 42" BFG	2.5%	136.8	96.7%
LOCATION:	Station #207+87			
2	6"/ 42" BFG	2.6%	136.5	96.5%
LOCATION:	Station #207+87			
3	6"/ 42" BFG	2.5%	136.3	96.4%
LOCATION:	Station #207+87			
4	6"/ 42" BFG	1.5%	138.5	97.9%
LOCATION:	Station #208+12			
5	6"/ 42" BFG	1.6%	139.3	98.5%
LOCATION:	Station #208+12			
6	6"/ 42" BFG	1.9%	137.1	97.0%
LOCATION:	Station #208+12			
7	6"/ 42" BFG	1.3%	134.4	95.0%
LOCATION:	Station #208+37			
8	6"/ 42" BFG	2.2%	137.7	97.4%
LOCATION:	Station #208+37			

REMARKS: BFG - Below Finish Grade (Base Course for Asphalt)



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	6"/ 32" BFG	2.3%	135.5	95.8%
LOCATION:	Station #207+87			
18	6"/ 32" BFG	2.5%	136.1	96.3%
LOCATION:	Station #207+87			
19	6"/ 32" BFG	1.7%	138.0	97.6%
LOCATION:	Station #208+12			
20	6"/ 32" BFG	1.6%	138.1	97.7%
LOCATION:	Station #208+12			
21	6"/ 32" BFG	1.4%	139.1	98.4%
LOCATION:	Station #208+12			
22	6"/ 32" BFG	1.7%	134.9	95.4%
LOCATION:	Station #208+37			
23	6"/ 32" BFG	1.8%	134.8	95.3%
LOCATION:	Station #208+37			
24	6"/ 32" BFG	1.7%	134.8	95.3%
LOCATION:	Station #207+37			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
33	6"/22" BFG	2.6%	134.8	95.3%
LOCATION:	Station #207+87			
34	6"/22" BFG	1.7%	138.6	98.0%
LOCATION:	Station #208+12			
35	6"/ 22" BFG	2.0%	138.4	97.9%
LOCATION:	Station #208+12			
36	6"/ 22" BFG	1.5%	138.7	98.1%
LOCATION:	Station #208+12			
37	6"/ 22" BFG	1.5%	134.5	95.1%
LOCATION:	Station #208+37			
38	6"/ 22" BFG	1.6%	134.5	95.1%
LOCATION:	Station #208+37			
39	6"/ 22" BFG	1.6%	134.7	95.3%
LOCATION:	Station #208+37			
40	6"/ 22" BFG	1.1%	136.8	96.7%
LOCATION:	Station #208+62			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
41	6"/22" BFG	1.6%	135.5	95.8%
LOCATION:	Station #208+62			
42	6"/22" BFG	1.6%	135.6	95.9%
LOCATION:	Station #207+62			
43	6"/ 22" BFG	1.9%	136.1	96.3%
LOCATION:	Station #			
44	6"/ 22" BFG	2.2%	136.6	96.6%
LOCATION:	Station #			
45	6"/ 22" BFG	2.0%	134.9	95.4%
LOCATION:	Station #			
LOCATION:				
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General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 63°F
Weather: Sunny
Soil ID#: 3519-608
Soil Type: Light Gray Gravel w/ Silt & Sand (1.5" Gravel)
Proctor Sample Source: Haynes Group

Proctor Value: 138.9 lbs/ft³ **Optimum Moisture:** 7.8%
Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
46	6"/ 10" BFG	1.2%	132.1	95.1%
LOCATION:	Station #207+87			
47	6"/ 10" BFG	1.6%	132.5	95.4%
LOCATION:	Station #207+87			
48	6"/ 10" BFG	2.3%	132.6	95.5%
LOCATION:	Station #208+12			
49	6"/ 10" BFG	1.8%	135.6	97.6%
LOCATION:	Station #208+12			
50	6"/ 10" BFG	1.9%	134.9	97.1%
LOCATION:	Station #208+37			
51	6"/ 10" BFG	2.9%	134.2	96.6%
LOCATION:	Station #208+37			
52	6"/ 10" BFG	1.3%	136.5	98.3%
LOCATION:	Station #208+62			
53	6"/ 10" BFG	1.7%	135.5	97.6%
LOCATION:	Station #208+62			

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Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
54	6"/ 10" BFG	1.8%	132.7	95.5%
LOCATION:	Station #208+87			
55	6"/ 10" BFG	1.7%	133.2	95.9%
LOCATION:	Station #208+87			
56	6"/ 4" BFG	2.3%	133.1	95.8%
LOCATION:	Station #207+87			
57	6"/ 4" BFG	1.7%	132.9	95.7%
LOCATION:	Station #207+87			
58	6"/ 4" BFG	2.5%	132.2	95.2%
LOCATION:	Station #208+12			
59	6"/ 4" BFG	2.1%	132.4	95.3%
LOCATION:	Station #208+12			
60	6"/ 4" BFG	2.4%	134.2	96.6%
LOCATION:	Station #208+37			
61	6"/ 4" BFG	2.2%	133.5	96.1%
LOCATION:	Station #208+37			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
62	6" / 4" BFG	1.7%	135.0	97.2%
LOCATION:	Station #208+62			
63	6" / 4" BFG	1.7%	135.8	97.8%
LOCATION:	Station #208+62			
64	6" / 4" BFG	2.5%	133.6	96.2%
LOCATION:	Station #208+87			
65	6" / 4" BFG	1.9%	134.1	96.5%
LOCATION:	Station #208+87			
LOCATION:				
LOCATION:				
LOCATION:				
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