



**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:** May 21, 2020

**REPORT #:** 19-75-012-066 Page 1 of 4

**General Location:** South Main Street (Route 17), Waterline Trench (Station #197+40 - Station #198+65 (56))  
**Field Rep:** Stephen Devlin  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 76°F  
**Weather:** Clear  
**Soil ID#:** 3519-592  
**Soil Type:** Light Gray Gravel w/ Sand & Silt  
**Proctor Sample Source:** Haynes Group

**Proctor Value:** 141.4      **lbs/ft<sup>3</sup>**      **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" / 3.5' BFG	1.7%	136.2	96.3%
<b>LOCATION:</b>	Station #197+40			
2	6" / 2' 8" BFG	2.0%	135.6	95.9%
<b>LOCATION:</b>	Station #197+45			
3	6" / 2.0' BFG	2.3%	137.3	97.1%
<b>LOCATION:</b>	Station #197+60			
4	6" / 3.5' BFG	1.9%	135.7	96.0%
<b>LOCATION:</b>	Station #197+75			
5	6" / 2' 8" BFG	1.5%	135.2	95.6%
<b>LOCATION:</b>	Station #197+70			
6	6" / 2.0' BFG	1.7%	139.3	98.5%
<b>LOCATION:</b>	Station #197+80			
7	6" / 3.5' BFG	2.3%	136.7	96.7%
<b>LOCATION:</b>	Station #198+05			
8	6" / 2' 8" BFG	1.9%	135.5	95.8%
<b>LOCATION:</b>	Station #198+00			

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



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**General Location:** South Main Street (Route 17), Waterline Trench (Station #197+40 - Station #198+65 (56))  
**Field Rep:** Stephen Devlin  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 76°F  
**Weather:** Clear  
**Soil ID#:** 3519-592  
**Soil Type:** Light Gray Gravel w/ Sand & Silt  
**Proctor Sample Source:** Haynes Group

**Proctor Value:** 141.4      **lbs/ft<sup>3</sup>**      **Optimum Moisture:** 4.6%  
**Gauge Type:** Troxler 3430      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	6"/ 2.0' BFG	2.7%	139.1	98.4%
<b>LOCATION:</b>	Station #197+95			
10	6"/ 3.5' BFG	2.6%	134.6	95.2%
<b>LOCATION:</b>	Station #198+15			
11	6"/ 2' 8" BFG	1.8%	137.7	97.4%
<b>LOCATION:</b>	Station #198+20			
12	6"/ 2.0' BFG	3.0%	136.5	96.5%
<b>LOCATION:</b>	Station #198+30			
13	6"/ 3.5' BFG	2.2%	138.0	97.6%
<b>LOCATION:</b>	Station #198+50			
14	6"/ 2' 8" BFG	2.6%	138.6	98.0%
<b>LOCATION:</b>	Station #198+40			
15	6"/ 2.0' BFG	3.6%	134.9	95.4%
<b>LOCATION:</b>	Station #198+45			
<b>LOCATION:</b>				

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**REPORT #:** 19-75-012-066 Page 3 of 4

**General Location:** Picket Lane, Waterline Service Extension  
**Field Rep:** Stephen Devlin  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 73°F  
**Weather:** Clear  
**Soil ID#:** 3520-218  
**Soil Type:** Dark Brown Clayey sand w/ Gravel (On Site Bankroll Clay/Silt)  
**Proctor Sample Source:** On Site Excavation

**Proctor Value:** 131.3      **lbs/ft<sup>3</sup>**      **Optimum Moisture:** 8.7%  
**Gauge Type:** Troxler 3430      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
16	6"/ 1.5' BFG	7.6%	128.1	97.6%
<b>LOCATION:</b>	Station #527+00			
<b>LOCATION:</b>				
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**REMARKS:** BFG - Below Finish Grade (Base Course for Asphalt)



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**General Location:** Picket Lane, Waterline Service Extension  
**Field Rep:** Stephen Devlin  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 75°F  
**Weather:** Clear  
**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/ft<sup>3</sup>**                      **Optimum Moisture:** 7.8%  
**Gauge Type:** Troxler 3430                                      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	6"/ Finish Grade	2.2%	132.9	95.7%
<b>LOCATION:</b>	Station #525+30			
18	6"/ 6" BFG	0.8%	133.3	96.0%
<b>LOCATION:</b>	Station #526+25			
<b>LOCATION:</b>				
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