

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 20, 2020

REPORT #: 19-75-012-065 Page 1 of 6

General Location: South Main Street (Route 17), Waterline Trench (Station #196+15 - Station #197+40 (30))
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 75°F
Weather: Clear
Soil ID#: 3519-592
Soil Type: Light Gray Gravel w/ Sand & Silt
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" / 3.5' BFG	3.0%	136.4	96.5%
LOCATION: Station #196+20				
2	6" / 2' 8" BFG	3.6%	137.7	97.4%
LOCATION: Station #196+30				
3	6" / 2.0' BFG	1.4%	138.4	97.9%
LOCATION: Station #196+35				
4	6" / 3.5' BFG	3.8%	135.2	95.6%
LOCATION: Station #196+55				
5	6" / 2' 8" BFG	3.5%	135.9	96.1%
LOCATION: Station #196+50				
6	6" / 2.0' BFG	1.7%	136.6	96.6%
LOCATION: Station #196+60				
7	6" / 3.5' BFG	1.7%	134.5	95.1%
LOCATION: Station #196+75				
8	6" / 2' 8" BFG	1.5%	136.0	96.2%
LOCATION: Station #196+80				

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



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	6"/ 2.0' BFG	1.2%	137.6	97.3%
LOCATION: Station #196+90				
10	6"/ 3.5' BFG	1.9%	135.3	95.7%
LOCATION: Station #197+10				
11	6"/ 2' 8" BFG	2.3%	136.3	96.4%
LOCATION: Station #197+00				
12	6"/ 2.0' BFG	2.0%	139.0	98.3%
LOCATION: Station #197+05				
13	6"/ 3.5' BFG	1.3%	134.6	95.2%
LOCATION: Station #197+25				
14	6"/ 2' 8" BFG	1.8%	136.9	96.8%
LOCATION: Station #197+20				
15	6"/ 2.0' BFG	2.2%	135.6	95.9%
LOCATION: Station #197+30				
LOCATION:				

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General Location: South Main Street (Route 17), Waterline Trench (Station #196+15 - Station #197+40 (30))
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/ft³** **Optimum Moisture:** 7.8%
Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
16	6"/ 18" BFG	1.5%	134.6	96.9%
LOCATION:	Station #196+30			
17	6"/ 4" BFG	0.9%	134.3	96.7%
LOCATION:	Station #196+40			
18	6"/ 18" BFG	1.8%	134.7	97.0%
LOCATION:	Station #196+50			
19	6"/ 4" BFG	1.5%	134.0	96.5%
LOCATION:	Station #196+55			
20	6"/ 18" BFG	1.4%	136.2	98.1%
LOCATION:	Station #196+85			
21	6"/ 4" BFG	1.2%	133.4	96.0%
LOCATION:	Station #196+80			
22	6"/ 18" BFG	1.6%	136.8	98.5%
LOCATION:	Station #197+00			
23	6"/ 4" BFG	0.9%	133.5	96.1%
LOCATION:	Station #197+10			

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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/ft³** **Optimum Moisture:** 7.8%
Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
24	6"/ 18" BFG	0.8%	132.5	95.4%
LOCATION:	Station #197+15			
25	6"/ 4" BFG	1.3%	133.2	95.9%
LOCATION:	Station #197+25			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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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#: 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/ft³** **Optimum Moisture:** 8.7%
Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
26	6"/ 1.5' BFG	14.0%	124.6	94.9%
LOCATION:	Station #525+05			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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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/ft³** **Optimum Moisture:** 7.8%
Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
27	6"/ Finish Grade	0.8%	132.6	95.5%
LOCATION:	Station #523+00			
28	6"/ Finish Grade	1.2%	132.1	95.1%
LOCATION:	Station #524+30			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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