

	Ludlow Construction Co., Inc. 19 Carmelina's Circle Ludlow, MA 01056			DJECT:	Durham Meadows Waterline Durham, CT				
	Attn: Mr. Mike	e Pio							
DATE:	June 4, 2020		REP	ORT #:	19-75-012-073	Page 1 of 4			
General Loo	ation:	Intersection	South Main Street (Route 1	7) & Hadd	lam Quarter Road, V	Vaterline Trench			
Field Rep:		Gregory Vachon							
General Co	ntractor:	Ludlow Construction Co., Inc.							
Earthwork			truction Co., Inc.						
Air Temp:		78°F							
Weather:		Mostly Sunny	I						
Soil ID#:		3519-592	1						
Soil Type:			avel w/ Sand & Silt (3.5" G	(lavel)					
	nple Source:	Haynes Grou		aveij					
Proctor San	iple source:	naynes Grou	þ						
Proctor Value:		141.4	lbs/ft ³	0	ptimum Moisture:	4.6%			
Gauge Type:		Troxler 3430		Re	equired Compaction	n: 95.0%			
TEST	DEPT	TH/ELEV.	MOISTURE		DRY DENSITY	COMPACTION			
NUMBER	k (i	in/ft)	(%)		(pcf)	(%)			
1	6"/	42" BFG	2.1%		137.7	97.4%			
LOCATION									
2		42" BFG	2.4% 1		135.9	96.1%			
LOCATION									
3		32" BFG	1.9%		138.4	97.9%			
LOCATION									
4		32" BFG	2.2%		137.8	97.5%			
LOCATION			2.00/						
5		6"/ 22" BFG 2.9%			136.1	96.3%			
LOCATION			2 70/		126.0	06 70/			
		6"/ 22" BFG 2.7% Station #166+33.5			136.8	96.7%			
LOCATION		00+00.0							
LOCATION	<u> </u> J•								
LOCATION	••								
LOCATION	<u> </u>								
			(Base Course for Asphalt)						



:	Ludlow Construction Co., Inc. 19 Carmelina's Circle Ludlow, MA 01056			IECT:	Durham Meadows Waterline Durham, CT			
	Attn: Mr. Mike	e Pio						
DATE:	June 4, 2020		REPO	ORT #:	19-75-012-073	Page 2 of 4		
General Loc	ation:	Intersection S	South Main Street (Route 17	7) & Hadda	m Quarter Road, V	Vaterline Trench		
Field Rep:		Gregory Vachon						
General Cor	ntractor:	Ludlow Construction Co., Inc.						
Earthwork C	Contractor:	Ludlow Const	truction Co., Inc.					
Air Temp:		78°F						
Weather:		Mostly Sunny	/					
Soil ID#:		3519-608						
Soil Type:		Light Gray Gr	avel w/ Silt & Sand (1.5" Gra	avel)				
	ple Source:	Haynes Grou		/				
Due et eu Mel		120.0		0		7.00/		
Proctor Valu	le:	138.9	lbs/ft ³	Opt	timum Moisture:	7.8%		
Gauge Type	:	Troxler 3430		Rec	Required Compaction: 95.0			
TEST	DEPT	H/ELEV.	MOISTURE	D	RY DENSITY	COMPACTION		
NUMBER	· · · ·	in/ft)	(%)		(pcf)	(%)		
7	,	16" BFG	1.4%		136.6	98.3%		
LOCATION								
8		16" BFG	1.7%		137.3	98.8%		
LOCATION			4.60/		400.0	00.40/		
9		8" BFG	1.6%		136.3	98.1%		
LOCATION		66+33.5 8" BFG	2.0%		125.0	07.80/		
10 LOCATION			2.0%		135.9	97.8%		
LUCATION	1. Station #1	00+33.5						
LOCATION	l:							
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CLIENT:	Ludlow Construction Co., Inc. 19 Carmelina's Circle Ludlow, MA 01056			PROJECT:	Durham Meadows Waterline Durham, CT				
	Attn: Mr. Mike								
DATE:	June 4, 2020		F	REPORT #:	19-75-012-073	Page 3 of 4			
General Lo		Intersection	Intersection South Main Street (Route 17), Waterline Trench						
Field Rep:		Gregory Vachon							
General Co	ontractor:	Ludlow Construction Co., Inc.							
	Contractor:		truction Co., Inc.						
Air Temp:		78°F							
Weather:		Mostly Sunny	1						
Soil ID#:		3519-600	1						
Soil Type:			Reddish brown silty sand w/ gravel						
	mple Source:	On site	and wy graver						
	inple source.								
Proctor Va	lue:	136.3	lbs/ft ³		Optimum Moisture:	6.6%			
Gauge Type:		Troxler 3430			Required Compaction	: 95.0%			
TEST	DEPT	H/ELEV.	MOISTURE		DRY DENSITY	COMPACTION			
NUMBE		in/ft)	(%)		(pcf)	(%)			
11	,	42" BFG	3.7%		130.7	95.9%			
LOCATIO									
12		42" BFG	4.1%		131.2	96.3%			
LOCATIO									
13		30" BFG	5.0%		133.8	98.2%			
LOCATIO			4.00/		422.0	07.5%			
14		30" BFG	4.8%		132.9	97.5%			
LOCATIO	N: Station #1	37+80							
LOCATIO	N·								
LOCATIO									
LOCATIO	N:		1			1			
LOCATIO	N:								



General Location:Intersection South Main Street (Route 17) & Haddam Quarter Road, Waterline TrenchField Rep:Gregory VachonGeneral Contractor:Ludlow Construction Co., Inc.Earthwork Contractor:Ludlow Construction Co., Inc.Air Temp:78°FWeather:Mostly SunnySoil ID#:3519-608Soil Type:Light Gray Gravel w/ Silt & Sand (1.5" Gravel)Proctor Sample Source:138.9Ibs/ft ³ Optimum Moisture:7.8%	CLIENT:	Ludlow Construction Co., Inc. 19 Carmelina's Circle Ludlow, MA 01056			DJECT:	Durham Meadows Waterline Durham, CT				
General Location: Intersection South Main Street (Route 17) & Haddam Quarter Road, Waterline Trench Field Rep: Gregory Vachon General Contractor: Ludlow Construction Co., Inc. Earthwork Contractor: Ludlow Construction Co., Inc. Air Temp: 78°F Weather: Mostly Sunny Soil Type: Light Gray Gravel w/ Silt & Sand (1.5" Gravel) Proctor Sample Source: Haynes Group Proctor Value: 138.9 Ibs/ft ³ Optimum Moisture: 7.8% Gauge Type: Troxler 3430 Required Compaction: 95.0% TEST DEPTH/ELEV. MOISTURE DRY DENSITY COMPACTION NUMBER (in/ft) (%) (pcf) (%) LOCATION: Station #137+80 138.0 99.4% LOCATION: Station #137+80 148.4 100.0+ LOCATION: Station #137+80 148.4 100.0+ LOCATION: Station #137+80 142.3 100.0+ LOCATION: Station #137+80 142.3 100.0+ LOCATION: Station #137+80 142.3 100.0+ LOCATION: </th <th></th> <th>Attn: Mr. Mike</th> <th>e Pio</th> <th></th> <th></th> <th></th> <th></th>		Attn: Mr. Mike	e Pio							
Field Rep: Gregory Vachon General Contractor: Ludlow Construction Co., Inc. Earthwork Contractor: Ludlow Construction Co., Inc. Air Temp: 78°F Weather: Mostly Sunny Soil ID#: 3519-608 Soil Type: Light Gray Gravel w/ Silt & Sand (1.5" Gravel) Proctor Sample Source: Haynes Group Proctor Sample Source: Haynes Group Proctor Value: 138.9 Ibs/ft ³ Optimum Moisture: 7.8% Gauge Type: Troxler 3430 MOISTURE 0ptimum Moisture: 95.0% TEST DEPTH/ELEV. MOISTURE DRY DENSITY COMPACTION NUMBER (in/ft) (%) 138.0 99.4% LOCATION: Station #137+80 138.0 99.4% LOCATION: Station #137+80 100.0+ 100.0+ LOCATION: Station #137+80 148.4 100.0+	DATE:	June 4, 2020		REP	ORT #:	19-75-012-073	Page 4 of 4			
General Contractor: Ludiow Construction Co., Inc. Earthwork Contractor: Ludiow Construction Co., Inc. Air Temp: 78°F Weather: Mostly 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 Ibs/ft ³ Optimum Moisture: 7.8% Gauge Type: Troxler 3430 Required Compaction: 95.0% TEST DEPTH/ELEV. MOISTURE DRY DENSITY COMPACTION NUMBER (in/ft) (%) (perf) (%) 15 6"/16" BFG 1.5% 138.0 99.4% LOCATION: Station #137+80 100.0+ 100.0+ LOCATION: Interpoin	General Lo	cation:	Intersection S	South Main Street (Route 1	.7) & Hadd	am Quarter Road, V	Vaterline Trench			
General Contractor: Ludiow Construction Co., Inc. Earthwork Contractor: Ludiow Construction Co., Inc. Air Temp: 78°F Weather: Mostly 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 Ibs/ft ³ Optimum Moisture: 7.8% Gauge Type: Troxler 3430 Required Compaction: 95.0% TEST DEPTH/ELEV. MOISTURE DRY DENSITY COMPACTION NUMBER (in/ft) (%) (perf) (%) 15 6"/16" BFG 1.5% 138.0 99.4% LOCATION: Station #137+80 100.0+ 100.0+ LOCATION: Interpoin	Field Rep:									
Earthwork Contractors: Ludlow Construction Co., Inc. Air Temp: 78°F Weather: Mostly 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 Ibs/ft ³ Optimum Moisture: 7.8% Gauge Type: Troxler 3430 Required Compaction: 95.0% TEST DEPTH/ELEV. MOISTURE DRY DENSITY COMPACTION NUMBER (in/ft) (%) (pcr) (%) 15 6° / 16° BFG 1.5% 138.0 99.4% LOCATION: Station #137+80 100.0+ 100.0+ LOCATION: Station #137+80 100.0+ 100.0+ LOCATION: Station #137+80 100.0+ 100.0+ 100.0+ LOCATION: Station #137+80 100.0+ 100.0+ 100.0+ 100.0+ 100.0+ 100.0+ 100.0+ 100.0+ 100.0+ 100.0+ 100.0+ 100.0+ 100.0+ 100.0+ 100.0+ 100.0+ 100.0+ 100.0+ 100.0+	-	ontractor:								
Air Temp: 78° F Weather: Mostly Sunny Soil ID#: 3519-608 Soil Type: Light Gray Gravel w/ Silt & Sand (1.5" Gravel) Proctor Sample Source: Haynes Gravel w/ Silt & Sand (1.5" Gravel) Proctor Sample Source: Haynes Gravel w/ Silt & Sand (1.5" Gravel) Proctor Value: 138.9 lbs/ft ³ Optimum Moisture: 7.8% Gauge Type: Troxler 3430 Required Compaction: 95.0% TEST DEPTH/ELEV. MOISTURE DRY DENSITY COMPACTION NUMBER (in/ft) (%) (pcf) (%) 16 6"/16" BFG 1.5% 138.0 99.4% LOCATION: Station #137+80 100.0+ 100.0+ LOCATION: Station #137+80 100.0+ 100.0+ LOCATION: Station #137+80 148.4 100.0+ LOCATION: Imaget Add Add Add Add Add Add Add Add Add Ad										
Weather: Mostly Sunny Soil ID#: 3519-608 Soil Type: Light Gray Gravel w/ Silt & Sand (1.5" Gravel) Proctor Sample Source: Haynes Gravel w/ Silt & Sand (1.5" Gravel) Proctor Sample Source: 138.9 Jbs/ft ³ Optimum Moisture: 7.8% Gauge Type: Troxler 3430 Required Compaction: 95.0% TEST DEPTH/ELEV. MOISTURE DRY DENSITY COMPACTION NUMBER (in/ft) (%) (pcf) (%) 15 6''/ 16" BFG 1.5% 138.0 99.4% LOCATION: Station #137+80 100.0+ 100.0+ LOCATION:										
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 ³ Optimum Moisture: 7.8% Gauge Type: Troxler 3430 Required Compaction: 95.0% TEST DEPTH/ELEV. MOISTURE DRY DENSITY COMPACTION NUMBER (in/ft) (%) (pcf) (%) 15 6"/16" BFG 1.5% 138.0 99.4% LOCATION: Station #137+80 100.0+ 100.0+ LOCATION: Station #137+80 100.0+ 100.0+ 17 6"/8" BFG 2.2% 148.4 100.0+ LOCATION: Station #137+80 100.0+ 100.0+ LOCATION:	•			1						
Soil Type: Light Gray Gravel w/ Silt & Sand (1.5" Gravel Proctor Sample Haynes Group Proctor Value: 138.9 Jbs/ft ³ Optimum Moisture: 7.8% Gauge Type: Troxler 343∪ Required Compaction: 95.0% TEST DEPTH/ELEV. MOISTURE DRY DENSITY COMPACTION NUMBER (in/ft) (%) (pcf) (%) 15 6"/16" BFG 1.5% 138.0 99.4% LOCATION: Station #137+80 100.0+ LOCATION: Image (Station #10, Station #10, Station #10, Station #10, Station #1				1						
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Proctor Value: 138.9 Jbs/ft ³ Optimum Moisture: 7.8% Gauge Type: Troxler 3430 Required Compaction: 95.0% TEST DEPTH/ELEV. MOISTURE DRY DENSITY COMPACTION NUMBER (in/ft) (%) (pcf) (%) 15 6"/ 16" BFG 1.5% 138.0 99.4% LOCATION: Station #137+80 100.0+ LOCATION: Station #137+80 100.0+ 17 6"/8" BFG 2.2% 148.4 100.0+ LOCATION: Station #137+80 142.3 100.0+ LOCATION: 1000000000000000000000000000000000000		mala Coursou			lavelj					
Gauge Type: Troxler 3430 Required Compaction: 95.0% TEST DEPTH/ELEV. MOISTURE DRY DENSITY COMPACTION NUMBER (in/ft) (%) (pcf) (%) 15 6"/16" BFG 1.5% 138.0 99.4% LOCATION: Station #137+80 139.2 100.0+ LOCATION: Station #137+80 1139.2 100.0+ LOCATION: Station #137+80 1139.2 100.0+ LOCATION: Station #137+80 148.4 100.0+ LOCATION: Station #137+80 142.3 100.0+ LOCATION: Image: Compact (Compact (Compa	Proctor Sa	inple source:	naynes Grou	þ						
TEST DEPTH/ELEV. MOISTURE DRY DENSITY COMPACTION NUMBER (in/ft) (%) (pcf) (%) 15 6"/16" BFG 1.5% 138.0 99.4% LOCATION: Station #137+80 139.2 100.0+ 16 6"/16" BFG 2.0% 139.2 100.0+ LOCATION: Station #137+80 148.4 100.0+ LOCATION: Station #137+80 142.3 100.0+ LOCATION: Image: Comparison of the state of the sta	Proctor Va	lue:	138.9	lbs/ft ³	O	ptimum Moisture:	7.8%			
NUMBER (in/ft) (%) (pcf) (%) 15 6"/16" BFG 1.5% 138.0 99.4% LOCATION: Station #137+80 139.2 100.0+ LOCATION: Station #137+80 1100.0+ 100.0+ LOCATION: Station #137+80 100.0+ 100.0+ LOCATION: Station #137+80 100.0+ 100.0+ LOCATION: Station #137+80 148.4 100.0+ LOCATION: Station #137+80 142.3 100.0+ LOCATION: Image: Comparison of the station #137+80 Image: Comparison of the station #137+80 LOCATION: Image: Comparison of the station #137+80 Image: Comparison of the station #137+80 Image: Comparison of the station #137+80 LOCATION: Image: Comparison of the station #137+80 Image: Comparison of the	Gauge Type:		Troxler 3430		Re	equired Compaction	: 95.0%			
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LOCATION: Station #137+80 16 6"/16" BFG 2.0% 139.2 100.0+ LOCATION: Station #137+80 17 6"/8" BFG 2.2% 148.4 100.0+ LOCATION: Station #137+80 148.4 100.0+ LOCATION: Station #137+80 142.3 100.0+ LOCATION: Image: Common of the state of the sta	NUMBE	R (i	in/ft)	(%)		(pcf)	(%)			
16 6"/ 16" BFG 2.0% 139.2 100.0+ LOCATION: Station #137+80 100.0+ 17 6"/ 8" BFG 2.2% 148.4 100.0+ LOCATION: Station #137+80 142.3 100.0+ 18 6"/ 8" BFG 2.4% 142.3 100.0+ LOCATION: Station #137+80 100.0+ 142.3 100.0+ LOCATION: Station #137+80 142.3 100.0+ LOCATION: Image: Station #137+80 Image: Station #137+80 Image: Station #137+80 LOCATION: Image: Station #137+80 Image: Station #137+80 Image: Station #137+80 LOCATION: Image: Station #137+80 Image: Station #137+80 Image: Station #137+80 Image: Station #137+80 LOCATION: Image: Station #137+80 Image: Station #137+80 Image: Station #137+80 Image: Station #137+80 LOCATION: Image: Station #137+80 Image: Station #137+80	15	6"/	16" BFG	1.5%		138.0	99.4%			
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18 6"/ 8" BFG 2.4% 142.3 100.0+ LOCATION: Station #137+80				2.2%		148.4	100.0+			
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