

CLIENT:	Ludlow Constr 19 Carmelina's	s Circle	PRO	JECT:	Durham Meadows Durham, CT	s Waterline	
	Ludlow, MA 0						
	Attn: Mr. Mike	e Pio					
DATE:	April 20, 2020		REP	ORT #:	19-75-012-044A	4A Page 1 of 5	
General Lo	ocation:	South Main S	Street (Route 17), Waterline	e Trench			
Field Rep:		Stephen Dev	lin				
General Contractor:		Ludlow Cons	truction Co., Inc.				
Earthwork Contractor:		Ludlow Cons	truction Co., Inc.				
Air Temp:		47°F					
Weather:		Sunny					
Soil ID#:		3519-600					
Soil Type:		Reddish Brov	vn Silty Sand w/ Gravel				
	mple Source:	On-Site					
	•		. 9				
Proctor Va	lue:	136.3	lbs/ft ³	Opt	timum Moisture:	6.6%	
Gauge Typ	e:	Troxler 3430		Rec	uired Compaction	: 95.0%	
TEST	DEPT	TH/ELEV.	MOISTURE	D	RY DENSITY	COMPACTION	
NUMBE		in/ft)	(%)		(pcf)	(%)	
1		3.5' BFG	9.0%		133.2	97.7%	
LOCATIC		61+20					
2							
		2' 8" BFG	8.6%		131.5	96.5%	
LOCATIC	N: Station #1	61+35					
3	IN: Station #1 6"/	61+35 3.5' BFG	8.6%		131.5 133.0	96.5%	
3 LOCATIC	Station #1 6"/ N: Station #1	61+35 3.5' BFG 61+55	8.8%		133.0	97.6%	
3 LOCATIO 4	Station #1 6"/ 0N: Station #1 6"/ 6"/	61+35 3.5' BFG 61+55 2' 8" BFG					
3 LOCATIC 4 LOCATIC	Station #1 6"/ 0N: Station #1 6"/2 0N: Station #1	61+35 3.5' BFG 61+55 2' 8" BFG 61+45	8.8% 9.4%		133.0 130.4	97.6%	
3 LOCATIC 4 LOCATIC 5	Station #1 6"/ N: Station #1 6"/ 6"/ ON: Station #1 6"/ 6"/	61+35 3.5' BFG 61+55 2' 8" BFG 61+45 3.5' BFG	8.8%		133.0	97.6%	
3 LOCATIC 4 LOCATIC 5 LOCATIC	Station #1 6"/ N: Station #1 6"/ N: Station #1 6"/ N: Station #1 0N: Station #1 0N: Station #1 0N: Station #1 0N: Station #1	61+35 3.5' BFG 61+55 2' 8" BFG 61+45 3.5' BFG 61+85	8.8% 9.4% 8.8%		133.0 130.4 131.4	97.6% 95.7% 96.4%	
3 LOCATIC 4 LOCATIC 5	Station #1 6"/ 0N: Station #1 6"/2	61+35 3.5' BFG 61+55 2' 8" BFG 61+45 3.5' BFG 61+85 2' 8" BFG	8.8% 9.4%		133.0 130.4	97.6%	
3 LOCATIC 4 LOCATIC 5 LOCATIC 6	Station #1 6"/ N: Station #1 6"/2 N: Station #1	61+35 3.5' BFG 61+55 2' 8" BFG 61+45 3.5' BFG 61+85 2' 8" BFG	8.8% 9.4% 8.8%		133.0 130.4 131.4	97.6% 95.7% 96.4%	
3 LOCATIC 4 LOCATIC 5 LOCATIC 6 LOCATIC	N: Station #1 6"/ N: Station #1 6"/ 6"/ N: Station #1 6"/ 6"/	61+35 3.5' BFG 61+55 2' 8" BFG 61+45 3.5' BFG 61+85 2' 8" BFG 61+70 3.5' BFG	8.8% 9.4% 8.8% 9.3%		133.0 130.4 131.4 130.6	97.6% 95.7% 96.4% 95.8%	
3 LOCATIC 4 LOCATIC 5 LOCATIC 6 LOCATIC 7	N: Station #1 6"/ N: Station #1 6"/ N: Station #1 6"/ N: Station #1 6"/ N: Station #1 6"/ 6"/	61+35 3.5' BFG 61+55 2' 8" BFG 61+45 3.5' BFG 61+85 2' 8" BFG 61+70 3.5' BFG	8.8% 9.4% 8.8% 9.3%		133.0 130.4 131.4 130.6	97.6% 95.7% 96.4% 95.8%	
3 LOCATIC 4 LOCATIC 5 LOCATIC 6 LOCATIC 7 LOCATIC	N: Station #1 6"/ N: Station #1 6"/2 N: Station #1 6"/2	61+35 3.5' BFG 61+55 2' 8" BFG 61+45 3.5' BFG 61+85 2' 8" BFG 61+70 3.5' BFG 62+00 2' 8" BFG	8.8% 9.4% 8.8% 9.3% 9.5%		133.0 130.4 131.4 130.6 132.2	97.6% 95.7% 96.4% 95.8% 97.0%	



CLIENT:	Ludlow Constr 19 Carmelina' Ludlow, MA 0		e. PRC	DJECT:	Durham Meadows Waterline Durham, CT			
	Attn: Mr. Mike	e Pio						
DATE:	April 20, 2020		REP	ORT #:	19-75-012-044A	Page 2 of 5		
General Location:			South Main Street (Route 17), Waterline Trench					
Field Rep:		Stephen Devlin						
•	General Contractor:		truction Co., Inc.					
Earthwork Contractor:			truction Co., Inc.					
Air Temp:		47°F						
Weather:		Sunny						
Soil ID#:								
Soil Type:		3519-600 Poddich Prov	vn Silty Sand w/ Gravel					
			wh silly sand w/ Graver					
Proctor Sa	mple Source:	On-Site						
Proctor Va	Proctor Value:		lbs/ft ³	Op	otimum Moisture:	6.6%		
Gauge Typ	be:	Troxler 3430		Re	quired Compactior	n: 95.0%		
TEST	DEPT	TH/ELEV.	MOISTURE	C	DRY DENSITY	COMPACTION		
NUMBE		in/ft)	(%)		(pcf)	(%)		
9		3.5' BFG	9.6%		132.6	97.3%		
LOCATIC								
10		2' 8" BFG	10.8%		130.8	96.0%		
LOCATIC								
11		3.5' BFG	10.7%		131.0	96.1%		
LOCATIC						07.04/		
12		2' 8" BFG	9.8%		129.8	95.2%		
LOCATIC			10.10/		420.2	05.00/		
13		3.5' BFG	10.1%	130.3 95.6%				
LOCATIC 14			0.20/		130.6	05.80/		
LOCATIC		2' 8" BFG	9.3%		130.6	95.8%		
15		3.5' BFG	10.0%		131.1	96.2%		
LOCATIC			10.070		131.1	50.270		
16		2' 8" BFG	9.5%		129.7	95.2%		
1 10	0/4		J.J/0		14,1	JJ.Z/0		
LOCATIC	DN: Station #1		1	1				



CLIENT:	19 Carmelina'		e. PF	ROJECT:	Durham Meadows Waterline Durham, CT		
	Ludlow, MA 0 Attn: Mr. Mike						
		e Plu					
DATE:	April 20, 2020		RE	PORT #:	19-75-012-044A F	Page 3 of 5	
General Lo	ocation:	South Main S	Street (Route 17), Waterli	ne Trench			
Field Rep:		Stephen Dev	lin				
General C	General Contractor:		truction Co., Inc.				
Earthwork Contractor:		Ludlow Cons	truction Co., Inc.				
Air Temp:		47°F					
Weather:		Sunny					
Soil ID#:							
Soil Type:		Light Grav Gr	ravel w/ Sand & Silt				
	mple Source:	Haynes Grou	-				
		ina jines er ea					
Proctor Va	alue:	141.4	lbs/ft ³	O	ptimum Moisture:	4.6%	
Gauge Typ	e:	Troxler 3430		Re	equired Compaction:	95.0%	
TEST	DEPT	TH/ELEV.	MOISTURE	1	ORY DENSITY	COMPACTION	
NUMBE		in/ft)	(%)		(pcf)	(%)	
17		2.0' BFG	7.8%		136.8	96.7%	
LOCATIC							
18		2.0' BFG	4.4%		139.8	98.9%	
LOCATIO							
19		2.0' BFG	8.3%		137.7	97.4%	
LOCATIO						27.00/	
20		2.0' BFG	5.7%		134.7	95.3%	
LOCATIO			6 70/		425.0		
21		2.0' BFG	6.7%		135.0	95.5%	
LOCATIO			5.8%		134.8	05.20/	
LOCATIO		2.0' BFG	5.8%		134.8	95.3%	
23		.02+55 2.0' BFG	5.1%		134.9	95.4%	
LOCATIO			5.1/0		134.5	55.4%	
24		2.0' BFG	8.7%		136.9	96.8%	
						70.070	
LOCATIO			0.770		20010		



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	Attn: Mr. Mike	e Pio						
DATE:	April 20, 2020		REPC	RT #: 19-75-	012-044A	Page 4 of 5		
General Location:			South Main Street (Route 17), Waterline Trench					
Field Rep:		Stephen Devlin						
•	General Contractor:		truction Co., Inc.					
Earthwork Contractor:			truction Co., Inc.					
Air Temp:		47°F						
Weather:		Sunny						
Soil ID#:								
Soil Type:		3519-608	rvel w/ Silt & Sand (1.5" Grav					
		• •		ei)				
Proctor Sa	mple Source:	Haynes Grou	p					
Proctor Va	alue:	138.9	lbs/ft ³	Optimum I	Moisture:	7.8%		
Gauge Typ	be:	Troxler 3430		Required C	Compaction	: 95.0%		
TEST	DEPT	TH/ELEV.	MOISTURE	DRY DEN	SITY	COMPACTION		
NUMBE		in/ft)	(%)	(pcf)		(%)		
25		18" BFG	4.9%	134.9)	97.1%		
LOCATIO								
26		4" BFG	5.5%	136.1	<u> </u>	98.0%		
LOCATIO						1		
27		4" BFG	4.3%	136.9)	98.6%		
LOCATIO								
28		6"/ 4" BFG 4.7%		134.8	134.8 97.0			
LOCATIO			F 40/	1240		0.0 50/		
29		18" BFG	5.4%	134.0)	96.5%		
LOCATIO 30		61+85 4" BFG	5.5%	135.7	,	97.7%		
LOCATIO			5.5%	135.7		97.7%		
	\mathbf{M} \mathbf{N}	Station #161+80						
21			1 0%	127 4		00 1 %		
	6"/	18" BFG	4.0%	137.6	5	99.1%		
LOCATIO	6"/ DN: Station #1	18" BFG 62+10		1				
_	6"/ DN: Station #1 6"/	18" BFG 62+10 4" BFG	4.0%	137.6		99.1%		



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	Attn: Mr. Mike	e Pio						
DATE:	April 20, 2020		REPC	RT #: 19-75-	012-044A	Page 5 of 5		
General Location:			South Main Street (Route 17), Waterline Trench					
Field Rep:		Stephen Devlin						
•	General Contractor:		truction Co., Inc.					
Earthwork Contractor:			truction Co., Inc.					
Air Temp:		47°F						
Weather:		Sunny						
Soil ID#:								
Soil Type:		3519-608	vel w/ Silt & Sand (1.5" Grav	al)				
		e ,	•	el)				
Proctor Sa	imple Source:	Haynes Grou	p					
Proctor Va	alue:	138.9	lbs/ft ³	Optimum	Moisture:	7.8%		
Gauge Typ	be:	Troxler 3430		Required C	Compaction	95.0%		
TEST	DEP	TH/ELEV.	MOISTURE	DRY DEN	SITY	COMPACTION		
NUMBE	ER (in/ft)	(%)	(pcf)		(%)		
33		18" BFG	4.7%	134.2	2	96.6%		
LOCATIO								
34		4" BFG	3.9%	134.9)	97.1%		
LOCATIO								
35		18" BFG	4.4%	136.6	5	98.3%		
LOCATIO			1			97.9%		
36		4" BFG	2.7%	136.0	136.0			
LOCATIO								
27								
37	6"/	18" BFG	4.9%	136.8	3	98.5%		
LOCATIO	6"/ DN: Station #1	18" BFG .62+85						
LOCATIC 38	6"/ DN: Station #1 6"/	18" BFG 62+85 ′ 4" BFG	4.9%	136.8		98.5% 98.3%		
LOCATIC 38 LOCATIC	6"/ DN: Station #1 6"/ DN: Station #1	18" BFG 62+85 4" BFG 62+70	4.5%	136.5	5	98.3%		
LOCATIO 38 LOCATIO 39	0N: Station #1 6"/ 0N: Station #1 0N: Station #1 6"/	18" BFG 62+85 4" BFG 62+70 18" BFG			5			
LOCATIC 38 LOCATIC 39 LOCATIC	6"/ DN: Station #1 6"/ DN: Station #1 6"/ DN: Station #1	18" BFG 62+85 4" BFG 62+70 18" BFG 63+00	4.5%	136.5 136.7	5	98.3%		
LOCATIO 38 LOCATIO 39	6"/ DN: Station #1 6"/ DN: Station #1 6"/ DN: Station #1 6"/	18" BFG 62+85 4" BFG 62+70 18" BFG 63+00 4" BFG	4.5%	136.5	5	98.3%		