

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS REPORT - 2017**

Vendor:	<u>J.H. LYNCH</u>	Lab No:	<u>20170006</u>
Source:	<u>FIRST ST. QUARRY</u>	Location:	<u>CUMBERLAND, RI</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	99.3	14.1	2.7	1.1	0.9
CA Size:1/2	100.0	100.0	100.0	100.0	39.8	26.6	2.1	1.8
CA Size:3/8	100.0	100.0	100.0	100.0	99.8	93.6	11.6	1.4
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			103.33	103.33	103.85
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96
Run # 1	LA Type	LA Result
1	B	13.81

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		3.014	2.982	2.920		
Specific Gravity (SSD):		3.035	2.994	2.932		
Apparent Specific Gravity:		3.077	3.019	2.956		
Absorption:		0.673	0.418	0.407		

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.37	0.39		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						

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Vendor: <u>CARDI CORP</u>	Lab No: <u>20170008</u>
Source: <u>ARNOLD RD/NEW LONDON</u>	Location: <u>COVENTRY, RI</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:								
CA Size:								
CA Size:								
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96	
Run #	LA Type	LA Result	
1	B		

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:						
Specific Gravity (SSD):						
Apparent Specific Gravity:						
Absorption:						

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.16	0.09		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						

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Vendor:	<u>PJ KEATING</u>	Lab No:	<u>20170009</u>
Source:	<u>PHENIX AVENUE QUARRY</u>	Location:	<u>CRANSTON, RI</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	94.4	6.6	1.2	0.8	0.7
CA Size:1/2	100.0	100.0	100.0	99.7	57.4	10.2	1.7	1.2
CA Size:3/8	100.0	100.0	100.0	100.0	99.8	87.3	13.1	2.4
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			95.90	94.41	93.98
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96
Run #	LA Type	LA Result
1	B	28.14

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.677	2.733	2.700		
Specific Gravity (SSD):		2.695	2.745	2.709		
Apparent Specific Gravity:		2.727	2.766	2.725		
Absorption:		0.680	0.427	0.348		

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.12	0.12		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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Vendor: MATERIALS S and S Lab No: 20170012
Source: POUND HILL RD. QUARRY Location: N. SMITHFIELD, RI

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing

	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	88.1	15.6	4.3	1.6	1.3
CA Size:1/2	100.0	100.0	100.0	100.0	65.5	10.8	1.1	0.9
CA Size:3/8	100.0	100.0	100.0	100.0	99.9	97.7	34.0	3.9
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			94.41	91.44	89.04

Loose

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run #	LA Type	LA Result
1	B	31.12

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.630	2.625	2.629		
Specific Gravity (SSD):		2.646	2.639	2.639		
Apparent Specific Gravity:		2.672	2.661	2.656		
Absorption:		0.601	0.505	0.390		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.01	0.06		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

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Date _____

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Vendor:	<u>DRY BRIDGE S and S</u>	Lab No:	<u>20170013</u>
Source:	<u>SLOCUM PIT</u>	Location:	<u>NORTH KINGSTOWN, RI</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	82.6	2.9	1.2	1.0	0.9
CA Size:1/2	100.0	100.0	100.0	99.1	69.6	13.1	1.1	0.9
CA Size:3/8	100.0	100.0	100.0	100.0	99.3	73.9	6.7	1.4
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			92.93	91.44	89.04
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96	
Run # 1	LA Type	LA Result	
1	B	34.71	

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.629	2.636	2.642		
Specific Gravity (SSD):		2.651	2.657	2.656		
Apparent Specific Gravity:		2.689	2.692	2.681		
Absorption:		0.845	0.787	0.544		

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.04	0.15		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						

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Vendor: LYNCH - TIVERTON Lab No: 20170017
Source: FISH ROAD QUARRY Location: TIVERTON, RI

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing

	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	89.9	13.0	3.1	1.6	1.4
CA Size:1/2	100.0	100.0	100.0	100.0	78.1	20.2	3.7	2.5
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	91.9	10.3	3.5
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			94.41	94.41	93.98

Loose

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run #	LA Type	LA Result
1	B	36.84

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.596	2.613	2.604		
Specific Gravity (SSD):		2.624	2.631	2.627		
Apparent Specific Gravity:		2.670	2.659	2.667		
Absorption:		1.063	0.654	0.906		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.06	0.09		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

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Date _____

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Vendor:	<u>PJ KEATING</u>	Lab No:	<u>20170021</u>
Source:	<u>SOUTH MAIN ST. QUARRY</u>	Location:	<u>ACUSHNET, MA</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	99.5	38.1	8.1	2.3	2.0
CA Size:1/2	100.0	100.0	100.0	100.0	86.7	26.7	4.4	2.8
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	94.7	34.9	6.0
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			97.38	98.87	98.91
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96
Run # 1	LA Type	LA Result
1	B	23.96

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.741	2.770	2.706		
Specific Gravity (SSD):		2.760	2.785	2.722		
Apparent Specific Gravity:		2.793	2.814	2.751		
Absorption:		0.681	0.566	0.601		

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.07	0.12		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						

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Vendor:	<u>BROX IND. - DRACUT</u>	Lab No:	<u>20170024</u>
Source:	<u>DRACUT QUARRY</u>	Location:	<u>DRACUT, MA</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	100.0	92.4	35.0	2.6	1.5
CA Size:								
CA Size:								
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			101.84		
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96	
Run #	LA Type	LA Result	
1	B		

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:				2.883		
Specific Gravity (SSD):				2.902		
Apparent Specific Gravity:				2.937		
Absorption:				0.635		

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.15	0.03		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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Vendor: J.S. LANE & SON - WESTFIELD Lab No: 20170025
Source: WESTFIELD QUARRY Location: WESTFIELD, MA

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing

	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	98.1	58.7	19.4	3.0	1.4
CA Size:								
CA Size:								
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			105.41		

Loose

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run #	LA Type	LA Result
1	B	11.79

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:				2.889		
Specific Gravity (SSD):				2.919		
Apparent Specific Gravity:				2.981		
Absorption:				1.071		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.21	0.24		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

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Vendor: <u>CHERENZIA</u>	Lab No: <u>20170029</u>
Source: <u>OLD HOPKINTON RD.</u>	Location: <u>WESTERLY, RI</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	98.1	15.3	2.4	0.9	0.8
CA Size:1/2	100.0	100.0	100.0	100.0	78.6	11.4	0.9	0.7
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	94.3	24.8	2.2
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			92.93	91.44	89.04
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96
Run # 1	LA Type	LA Result
1	B	28.12

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.626	2.625	2.622		
Specific Gravity (SSD):		2.646	2.643	2.636		
Apparent Specific Gravity:		2.678	2.672	2.659		
Absorption:		0.733	0.662	0.530		

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.03	0.33		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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Vendor: SOUTH COUNTY S and G Lab No: 20170031
Source: CHARLESTOWN PIT Location: CHARLESTOWN, RI

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing

	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:11/2	100.0	100.0	79.4	24.8	3.3	2.3	1.8	1.6
CA Size:3/4	100.0	100.0	100.0	83.7	8.2	3.5	2.4	2.1
CA Size:1/2	100.0	100.0	100.0	100.0	70.8	11.3	1.8	1.4
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	93.6	13.8	2.1

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)	94.41		94.41	91.44	89.04

Loose

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run #	LA Type	LA Result
1	B	49.58

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.597	2.622	2.595		2.603
Specific Gravity (SSD):		2.620	2.642	2.613		2.623
Apparent Specific Gravity:		2.658	2.676	2.642		2.654
Absorption:		0.885	0.768	0.680		0.740

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.01	0.06		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

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Date _____

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS REPORT - 2017**

Vendor: G. LOPES Lab No: 20170049
Source: MIDDLEBORO PIT Location: MIDDLEBORO, MA.

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing

	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	92.2	33.0	7.7	1.3	1.0
CA Size:1/2	100.0	100.0	100.0	100.0	95.8	64.3	7.8	1.3
CA Size:3/8	100.0	100.0	100.0	100.0	98.9	79.4	10.4	2.0
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			97.38	94.41	93.98

Loose

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run #	LA Type	LA Result
1	B	28.95

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.621	2.639	2.649		
Specific Gravity (SSD):		2.644	2.665	2.672		
Apparent Specific Gravity:		2.684	2.710	2.711		
Absorption:		0.896	0.999	0.868		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.12	0.06		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

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Date _____

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS REPORT - 2017**

Vendor: CHERENZIA-WHITE ROCK Lab No: 20170058
Source: WHITE ROCK QUARRY Location: WESTERLY, RI

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing

	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	95.0	5.7	2.2	1.2	1.0
CA Size:1/2	100.0	100.0	100.0	100.0	73.8	14.2	2.1	1.6
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	95.0	25.4	4.0
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			91.44	91.44	89.04

Loose

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine **AASHTO T-96**

Run #	LA Type	LA Result
1	B	40.53

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.605	2.612	2.625		
Specific Gravity (SSD):		2.631	2.629	2.637		
Apparent Specific Gravity:		2.674	2.656	2.656		
Absorption:		0.977	0.623	0.448		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.07	0.12		

Amount of Material Finer than # 200 Sieve in Aggregate **AASHTO T-11**

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

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**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS REPORT - 2017**

Vendor: <u>CARDI CORP.</u>	Lab No: <u>20170066</u>
Source: <u>Hopkins Hill</u>	Location: <u>West Greenwich, RI</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	99.1	21.3	6.4	2.3	1.8
CA Size:1/2	100.0	100.0	100.0	100.0	68.4	25.4	7.1	4.3
CA Size:3/8	100.0	100.0	100.0	100.0	99.6	91.2	30.1	11.9
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			97.38	100.36	103.85
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96
Run # 1	LA Type	LA Result
1	B	35.39

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.632	2.628	2.619		
Specific Gravity (SSD):		2.646	2.640	2.630		
Apparent Specific Gravity:		2.668	2.660	2.648		
Absorption:		0.513	0.466	0.420		

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.01	0.06		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS REPORT - 2017**

Vendor: CUMBERLAND QUARRY . Lab No: 20170068
Source: MANVILLE HILL ROAD Location: CUMBERLAND, RI

Sieve Analysis of Coarse Aggregate

AASHTO T-27

% Passing

	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	98.9	19.2	2.0	0.7	0.6
CA Size:1/2	100.0	100.0	100.0	100.0	92.7	15.0	0.8	0.7
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	96.7	21.7	2.1
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Compacted

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			91.44	92.93	93.98

Loose

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine AASHTO T-96

Run #	LA Type	LA Result
1	B	27.52

Specific Gravity and Absorption of Coarse Aggregate

AASHTO T-85

Nominal Aggregate Size:	#4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.671	2.682	2.680		
Specific Gravity (SSD):		2.687	2.693	2.687		
Apparent Specific Gravity:		2.715	2.711	2.699		
Absorption:		0.609	0.398	0.273		

Soundness of Aggregate by Use of Sodium Sulfate

AASHTO T-104

Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - #4	#4 - #8
% Loss:				0.04	0.66		

Amount of Material Finer than # 200 Sieve in Aggregate AASHTO T-11

Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
% Passing # 200 sieve						

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**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS REPORT - 2017**

Vendor: <u>Continental Paving</u>	Lab No: <u>20170069</u>
Source: <u>Hanover, NH</u>	Location: <u>NH</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:1/2	100.0	100.0	100.0	100.0	97.2	49.4	1.2	0.6
CA Size:								
CA Size:								
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)				94.41	
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96	
Run # 1	LA Type	LA Result	
	B	15.78	

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:			2.734			
Specific Gravity (SSD):			2.747			
Apparent Specific Gravity:			2.769			
Absorption:			0.458			

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.16	0.09		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS REPORT - 2017**

Vendor:	<u>BROOKLYN S & G</u>	Lab No:	<u>20170078</u>
Source:	<u>WAUREGAN RD PIT</u>	Location:	<u>BROOKLYN CONN</u>

Sieve Analysis of Coarse Aggregate		AASHTO T-27						
% Passing	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8
CA Size:3/4	100.0	100.0	100.0	93.6	8.6	1.8	1.2	1.0
CA Size:1/2	100.0	100.0	100.0	100.0	84.9	25.5	3.7	2.3
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	96.0	18.0	4.8
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19				
Compacted	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)			94.41	97.38	98.91
Loose	Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
	Unit Weight: (lbs./cu. ft.)					

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96
Run # 1	LA Type	LA Result
1	B	32.04

Specific Gravity and Absorption of Coarse Aggregate		AASHTO T-85				
Nominal Aggregate Size:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.636	2.645	2.628		
Specific Gravity (SSD):		2.663	2.672	2.650		
Apparent Specific Gravity:		2.708	2.718	2.688		
Absorption:		1.010	1.022	0.845		

Soundness of Aggregate by Use of Sodium Sulfate		AASHTO T-104					
Sieve Size:	2" - 1 1/2"	1 1/2" - 1"	1" - 3/4"	3/4" - 1/2"	1/2" - 3/8"	3/8" - # 4	# 4 - # 8
% Loss:				0.04	0.48		

Amount of Material Finer than # 200 Sieve in Aggregate		AASHTO T-11				
Aggregate Bin Size	1 1/2"	1"	3/4"	1/2"	3/8"	# 4
% Passing # 200 sieve						