

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS REPORT - 2015**

Vendor: J.H. LYNCH Lab No: 20150006
Source: FIRST ST. QUARRY 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	97.7	8.6	1.5	1.4	1.0
CA Size:1/2	100.0	100.0	100.0	100.0	85.6	24.7	1.3	1.1
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	98.1	26.5	2.9
CA Size:								

Unit Weight and Void in Aggregate AASHTO T-19

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			107.79	97.38	103.85

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

Run #	LA Type	LA Result
1	B	14.88

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:		2.983	2.926	3.055		
Specific Gravity (SSD):		3.002	2.940	3.063		
Apparent Specific Gravity:		3.039	2.968	3.078		
Absorption:		0.615	0.481	0.241		

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:				0.40	0.63		

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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COARSE AGGREGATE ANALYSIS REPORT - 2015**

Vendor:	<u>PJ KEATING</u>	Lab No:	<u>20150009</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	91.8	24.1	6.3	2.0	1.6
CA Size:1/2	100.0	100.0	100.0	100.0	79.0	25.3	2.1	1.5
CA Size:3/8	100.0	100.0	100.0	100.0	99.8	93.0	31.6	8.5
CA Size:								

Unit Weight and Void in Aggregate **AASHTO T-19**

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			95.90	92.93	98.91

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

	LA Type	LA Result
Run # 1	<u>B</u>	<u>30.52</u>

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:		2.667	2.655	2.705		
Specific Gravity (SSD):		2.682	2.682	2.725		
Apparent Specific Gravity:		2.707	2.730	2.761		
Absorption:		0.556	1.041	0.753		

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:				0.22	0.30		

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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COARSE AGGREGATE ANALYSIS REPORT - 2015**

Vendor: MATERIALS S and S Lab No: 20150012
 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	87.8	14.2	4.1	1.0	0.8
CA Size:1/2	100.0	100.0	100.0	100.0	83.9	27.8	2.3	1.4
CA Size:3/8	100.0	100.0	100.0	100.0	99.7	96.5	20.9	2.7
CA Size:								

Unit Weight and Void in Aggregate AASHTO T-19

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

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

	LA Type	LA Result
Run # 1	<u>B</u>	<u>32.40</u>

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:		2.599	2.604	2.591		
Specific Gravity (SSD):		2.634	2.629	2.613		
Apparent Specific Gravity:		2.695	2.670	2.650		
Absorption:		1.370	0.945	0.859		

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:							

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>DRY BRIDGE S and S</u>	Lab No:	<u>20150013</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	93.2	12.9	2.3	1.3	1.1
CA Size:1/2	100.0	100.0	100.0	100.0	77.7	17.4	1.7	1.3
CA Size:3/8	100.0	100.0	100.0	100.0	99.6	90.7	11.5	2.3
CA Size:								

Unit Weight and Void in Aggregate		AASHTO T-19			
Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			94.41	92.93	98.91

Resistance to Abrasion of CA by use of the LA Machine		AASHTO T-96	
Run # 1	LA Type	LA Result	
	<u>B</u>	<u>34.80</u>	

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:		2.595	2.609	2.620		
Specific Gravity (SSD):		2.628	2.639	2.645		
Apparent Specific Gravity:		2.684	2.689	2.688		
Absorption:		1.279	1.131	0.963		

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	0.42		

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: LYNCH - TIVERTON Lab No: 20150017
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	92.2	18.8	10.0	3.7	2.6
CA Size:1/2	100.0	100.0	100.0	100.0	95.8	32.1	2.3	1.4
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	98.3	23.7	5.6
CA Size:								

Unit Weight and Void in Aggregate AASHTO T-19

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			94.41	91.44	93.98

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

	LA Type	LA Result
Run # 1	<u>B</u>	<u>34.98</u>

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:		2.601	2.572	2.589		
Specific Gravity (SSD):		2.625	2.602	2.616		
Apparent Specific Gravity:		2.666	2.654	2.660		
Absorption:		0.929	1.202	1.021		

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:				0.68	0.90		

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: PJ KEATING Lab No: 20150021
 Source: SOUTH MAIN ST. QUARRY Location: ACUSHNET, 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	93.5	13.8	2.4	0.9	0.8
CA Size:1/2	100.0	100.0	100.0	99.9	97.8	7.0	2.0	0.4
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	64.2	10.7	4.9
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

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

Resistance to Abrasion of CA by use of the LA Machine

AASHTO T-96

	LA Type	LA Result
Run # 1	<u>B</u>	<u>21.45</u>

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:		2.678	2.641	2.678		
Specific Gravity (SSD):		2.696	2.683	2.695		
Apparent Specific Gravity:		2.727	2.757	2.723		
Absorption:		0.676	1.602	0.607		

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:				0.10	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: BROX IND. - DRACUT Lab No: 20150024
 Source: DRACUT QUARRY Location: DRACUT, 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:								
CA Size:1/2	100.0	100.0	100.0	100.0	86.7	29.5	6.7	4.8
CA Size:3/8	100.0	100.0	100.0	100.0	99.9	94.6	31.0	2.5
CA Size:								

Unit Weight and Void in Aggregate AASHTO T-19

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)				107.79	103.85

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

	LA Type	LA Result
Run # 1	<u>B</u>	<u>13.15</u>

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:		2.881	2.901			
Specific Gravity (SSD):		2.903	2.915			
Apparent Specific Gravity:		2.945	2.943			
Absorption:		0.763	0.488			

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	0.18		

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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COARSE AGGREGATE ANALYSIS REPORT - 2015**

Vendor: ATTLEBORO S & G Lab No: 20150027
Source: ATTLEBORO PIT Location: ATTLEBORO, 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	91.6	10.6	1.3	0.5	0.5
CA Size:1/2	100.0	100.0	100.0	100.0	85.5	18.8	0.9	0.6
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	91.3	12.1	0.8
CA Size:								

Unit Weight and Void in Aggregate AASHTO T-19

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			92.93	91.44	89.04

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

	LA Type	LA Result
Run # 1	<u>B</u>	<u>13.57</u>

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:		2.664	2.697	2.723		
Specific Gravity (SSD):		2.696	2.722	2.740		
Apparent Specific Gravity:		2.752	2.766	2.769		
Absorption:		1.193	0.927	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:				0.06	0.18		

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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COARSE AGGREGATE ANALYSIS REPORT - 2015**

Vendor: CHERENZIA Lab No: 20150029
Source: OLD HOPKINTON RD. 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	95.7	21.1	4.5	1.5	1.2
CA Size:1/2	100.0	100.0	100.0	100.0	89.9	22.7	2.2	1.6
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	95.5	32.5	3.9
CA Size:								

Unit Weight and Void in Aggregate AASHTO T-19

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			91.44	89.96	89.04

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

	LA Type	LA Result
Run # 1	<u>B</u>	<u>36.68</u>

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:		2.583	2.598	2.607		
Specific Gravity (SSD):		2.615	2.620	2.627		
Apparent Specific Gravity:		2.669	2.655	2.661		
Absorption:		1.262	0.833	0.778		

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	1.44		

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: 20150031
 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:3/4	100.0	100.0	99.7	69.6	5.6	2.6	2.1	1.8
CA Size:1/2	100.0	100.0	100.0	100.0	64.4	11.2	2.4	1.9
CA Size:3/8	100.0	100.0	100.0	100.0	99.3	90.9	19.7	3.2
CA Size:11/2	100.0	100.0	40.0	4.1	1.2	1.1	1.0	1.0

Unit Weight and Void in Aggregate AASHTO T-19

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)	91.44		92.93	91.44	89.04

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

	LA Type	LA Result
Run # 1	<u>B</u>	<u>49.01</u>

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:		2.536	2.559	2.576		
Specific Gravity (SSD):		2.584	2.591	2.601		
Apparent Specific Gravity:		2.663	2.644	2.642		
Absorption:		1.886	1.247	0.974		

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	0.69		

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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COARSE AGGREGATE ANALYSIS REPORT - 2015**

Vendor: J.P. CARRARA Lab No: 20150052
 Source: MIDDLEBURY, VT Location: MIDDLEBURY, VT

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	98.3	50.5	23.0	3.6	2.3
CA Size:								
CA Size:3/8	100.0	100.0	100.0	100.0	99.7	99.3	12.9	4.3
CA Size:								

Unit Weight and Void in Aggregate

AASHTO T-19

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			97.38		98.91

Resistance to Abrasion of CA by use of the LA Machine

AASHTO T-96

	LA Type	LA Result
Run # 1	<u>B</u>	<u>22.96</u>

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:		2.532		2.549		
Specific Gravity (SSD):		2.577		2.579		
Apparent Specific Gravity:		2.650		2.628		
Absorption:		1.761		1.187		

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:				0.10	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: CHERENZIA-WHITE ROCK Lab No: 20150058
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	96.2	4.4	2.0	1.4	1.2
CA Size:1/2	100.0	100.0	100.0	100.0	45.8	6.4	1.8	1.5
CA Size:3/8	100.0	100.0	100.0	100.0	99.3	80.9	16.9	4.1
CA Size:								

Unit Weight and Void in Aggregate AASHTO T-19

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

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

	LA Type	LA Result
Run # 1	<u>B</u>	<u>41.11</u>

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:		2.550	2.578	2.594		
Specific Gravity (SSD):		2.594	2.605	2.617		
Apparent Specific Gravity:		2.669	2.649	2.654		
Absorption:		1.754	1.034	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:				0.18	2.67		

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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COARSE AGGREGATE ANALYSIS REPORT - 2015**

Vendor: CARDI CORP. Lab No: 20150066
Source: Hopkins Hill Road Location: Coventry, 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	99.6	24.0	7.9	2.0	1.3
CA Size:1/2	100.0	100.0	100.0	100.0	16.1	11.3	2.0	1.3
CA Size:3/8	100.0	100.0	100.0	100.0	99.8	93.0	32.2	8.6
CA Size:								

Unit Weight and Void in Aggregate AASHTO T-19

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			94.41	94.41	98.91

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

	LA Type	LA Result
Run # 1	<u>B</u>	<u>38.60</u>

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:		2.603	2.567	2.594		
Specific Gravity (SSD):		2.624	2.597	2.614		
Apparent Specific Gravity:		2.658	2.648	2.647		
Absorption:		0.793	1.199	0.774		

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	0.15		

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						

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS REPORT - 2015**

Vendor: CUMBERLAND QUARRY . Lab No: 20150068
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	98.2	8.9	1.8	1.5	1.4
CA Size:1/2	100.0	100.0	100.0	100.0	86.1	21.6	2.2	1.9
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	81.6	8.1	1.5
CA Size:								

Unit Weight and Void in Aggregate AASHTO T-19

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			98.87	97.38	93.98

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

	LA Type	LA Result
Run # 1	<u>B</u>	<u>22.78</u>

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:		2.790	2.782	2.796		
Specific Gravity (SSD):		2.815	2.806	2.811		
Apparent Specific Gravity:		2.864	2.850	2.838		
Absorption:		0.927	0.857	0.528		

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	0.21		

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 - 2015**

Vendor: BROOKLYN S & G Lab No: 20150078
 Source: WAREGAN RD PIT Location: BROOKLYN CONN

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	96.1	35.4	13.2	3.3	2.1
CA Size:1/2	100.0	100.0	100.0	100.0	84.9	18.2	2.4	1.4
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	96.6	27.1	6.4
CA Size:								

Unit Weight and Void in Aggregate AASHTO T-19

Nominal Aggregate Size:	1 1/2"	1"	3/4"	1/2"	3/8"
Unit Weight: (lbs./cu. ft.)			100.36	97.38	98.91

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

	LA Type	LA Result
Run # 1	<u>b</u>	<u>31.99</u>

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:		2.593	2.602	2.542		
Specific Gravity (SSD):		2.634	2.639	2.585		
Apparent Specific Gravity:		2.704	2.704	2.658		
Absorption:		1.591	1.454	1.718		

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:				0.10	0.57		

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 - 2015**

Vendor:	<u>G. LOPES</u>	Lab No:	<u>20150079</u>
Source:	<u>RAYNHAM, MA</u>	Location:	<u>RAYNHAM, 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	99.3	86.5	10.9	2.0	1.6	0.7
CA Size:1/2	100.0	100.0	100.0	100.0	92.2	57.2	6.0	1.3
CA Size:3/4	100.0	100.0	100.0	100.0	96.5	76.4	11.9	1.2
CA Size:								

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

Resistance to Abrasion of CA by use of the LA Machine			AASHTO T-96	
Run # 1	LA Type <u>B</u>	LA Result <u>26.93</u>		

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:		2.615	2.595	2.645		
Specific Gravity (SSD):		2.648	2.641	2.671		
Apparent Specific Gravity:		2.704	2.719	2.716		
Absorption:		1.251	1.754	0.990		

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:				0.24	0.45		

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						