

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
MATERIALS AND QUALITY ASSURANCE  
COARSE AGGREGATE ANALYSIS REPORT - 2016**

Vendor:	<u>J.H. LYNCH</u>	Lab No:	<u>20160006</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	99.2	12.4	1.7	0.8	0.7
CA Size:1/2	100.0	100.0	100.0	100.0	71.6	11.2	0.7	0.6
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	98.8	25.4	1.1
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.)			104.81	101.84	108.79
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	12.35

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:		3.070	2.952	2.950		
Specific Gravity (SSD):		3.081	2.961	2.957		
Apparent Specific Gravity:		3.103	2.978	2.969		
Absorption:		0.353	0.297	0.217		

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:				0.28	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						

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
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Vendor: CARDI CORP Lab No: 20160008  
Source: ARNOLD RD/NEW LONDON 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	99.0	28.2	10.8	4.1	3.0
CA Size:1/2	100.0	100.0	100.0	100.0	49.6	6.8	1.1	0.9
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	93.6	36.4	15.8
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.)			97.38	91.44	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
	B	40.57

**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:		2.608	2.609	2.610		
Specific Gravity (SSD):		2.625	2.623	2.623		
Apparent Specific Gravity:		2.653	2.645	2.644		
Absorption:		0.639	0.516	0.485		

**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	0.03		

**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						

Reviewed By \_\_\_\_\_ (Print / Sign)

Date \_\_\_\_\_

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
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COARSE AGGREGATE ANALYSIS REPORT - 2016**

Vendor: PJ KEATING Lab No: 20160009  
Source: PHENIX AVENUE QUARRY Location: CRANSTON, 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	95.6	24.7	6.3	1.9	1.5
CA Size:1/2	100.0	100.0	100.0	100.0	87.2	39.6	5.2	3.4
CA Size:3/8	100.0	100.0	100.0	100.0	99.4	90.0	37.7	10.7
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 #	LA Type	LA Result
1	B	29.76

**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:		2.654	2.697	2.644		
Specific Gravity (SSD):		2.669	2.708	2.658		
Apparent Specific Gravity:		2.694	2.727	2.681		
Absorption:		0.562	0.405	0.527		

**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	0.18		

**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						

Reviewed By \_\_\_\_\_ (Print / Sign)

Date \_\_\_\_\_

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
MATERIALS AND QUALITY ASSURANCE  
COARSE AGGREGATE ANALYSIS REPORT - 2016**

Vendor: MATERIALS S and S Lab No: 20160012  
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	80.6	8.0	2.2	1.2	1.1
CA Size:1/2	100.0	100.0	100.0	100.0	86.5	31.4	3.8	2.2
CA Size:3/8	100.0	100.0	100.0	100.0	99.4	94.6	19.6	3.0
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.)			92.93	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 # 1	LA Type	LA Result
	B	34.97

**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:		2.628	2.619	2.611		
Specific Gravity (SSD):		2.647	2.637	2.628		
Apparent Specific Gravity:		2.679	2.668	2.656		
Absorption:		0.733	0.706	0.650		

**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:				0.53	1.11		

**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						

Reviewed By \_\_\_\_\_ (Print / Sign)

Date \_\_\_\_\_

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
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COARSE AGGREGATE ANALYSIS REPORT - 2016**

Vendor:	<u>DRY BRIDGE S and S</u>	Lab No:	<u>20160013</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	99.2	75.3	4.0	1.0	0.8	0.7
CA Size:1/2	100.0	100.0	100.0	99.8	72.8	15.6	2.3	1.6
CA Size:3/8	100.0	100.0	100.0	100.0	99.7	86.1	18.7	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.)			95.90	94.41	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	
	<u>B</u>	<u>36.20</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:		2.626	2.622	2.626		
Specific Gravity (SSD):		2.651	2.643	2.643		
Apparent Specific Gravity:		2.693	2.677	2.672		
Absorption:		0.937	0.782	0.657		

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	0.15		

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  
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COARSE AGGREGATE ANALYSIS REPORT - 2016**

Vendor: LYNCH - TIVERTON Lab No: 20160017  
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	87.6	16.8	2.9	1.1	1.0
CA Size:1/2	100.0	100.0	100.0	100.0	88.8	25.1	2.1	1.4
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	96.0	24.5	9.4
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.)			94.41	91.44	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
	B	36.32

**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:		2.634	2.605	2.613		
Specific Gravity (SSD):		2.653	2.629	2.632		
Apparent Specific Gravity:		2.685	2.669	2.664		
Absorption:		0.722	0.916	0.729		

**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						

Reviewed By \_\_\_\_\_ (Print / Sign)

Date \_\_\_\_\_

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
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COARSE AGGREGATE ANALYSIS REPORT - 2016**

Vendor:	<u>PJ KEATING</u>	Lab No:	<u>20160021</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	99.4	20.7	2.2	1.0	1.0
CA Size:1/2	100.0	100.0	100.0	100.0	82.9	22.6	3.4	1.7
CA Size:3/8	100.0	100.0	100.0	100.0	99.9	93.3	26.8	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.)			98.87	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	21.31	

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:		2.727	2.712	2.730		
Specific Gravity (SSD):		2.748	2.724	2.740		
Apparent Specific Gravity:		2.784	2.746	2.758		
Absorption:		0.753	0.455	0.365		

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:				0.09	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  
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COARSE AGGREGATE ANALYSIS REPORT - 2016**

Vendor: BROX IND. - DRACUT Lab No: 20160024  
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:3/4	100.0	100.0	100.0	90.5	13.8	2.3	0.9	0.8
CA Size:1/2	100.0	100.0	100.0	100.0	93.1	36.6	6.7	3.7
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	89.1	24.2	2.7
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	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
	B	14.12

**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:		2.931	2.915	2.932		
Specific Gravity (SSD):		2.947	2.926	2.942		
Apparent Specific Gravity:		2.978	2.949	2.959		
Absorption:		0.535	0.394	0.311		

**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:				0.30	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						

Reviewed By \_\_\_\_\_ (Print / Sign)

Date \_\_\_\_\_



**RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
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COARSE AGGREGATE ANALYSIS REPORT - 2016**

Vendor: <u>CHERENZIA</u>	Lab No: <u>20160029</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	99.7	43.3	7.8	1.4	1.2
CA Size:1/2	100.0	100.0	100.0	100.0	63.4	8.8	0.8	0.6
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.)			92.93	92.93	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	27.79

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:		2.633	2.623	2.624		
Specific Gravity (SSD):		2.653	2.634	2.635		
Apparent Specific Gravity:		2.686	2.652	2.655		
Absorption:		0.743	0.423	0.445		

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	0.42		

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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COARSE AGGREGATE ANALYSIS REPORT - 2016**

Vendor: <u>SOUTH COUNTY S and G</u>	Lab No: <u>20160031</u>
Source: <u>CHARLESTOWN PIT</u>	Location: <u>CHARLESTOWN, 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	91.9	7.4	2.8	1.8	1.5
CA Size:1/2	100.0	100.0	100.0	100.0	70.9	9.4	1.7	1.2
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	92.3	20.8	4.5
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	91.44	91.51
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	49.21

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:		2.581	2.582	2.599		
Specific Gravity (SSD):		2.606	2.605	2.618		
Apparent Specific Gravity:		2.646	2.643	2.650		
Absorption:		0.951	0.891	0.739		

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	0.06		

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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Vendor: TILCON - WALLINGFORD Lab No: 20160035  
Source: WALLINGFORD QUARRY Location: WALLINGFORD, CT

**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	76.9	26.6	3.1	2.1
CA Size:								
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	95.3	20.0	2.6
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	13.50

**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:							

**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						

Reviewed By \_\_\_\_\_ (Print / Sign)

Date \_\_\_\_\_

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
MATERIALS AND QUALITY ASSURANCE  
COARSE AGGREGATE ANALYSIS REPORT - 2016**

Vendor:	<u>P.A. LANDERS</u>	Lab No:	<u>20160047</u>
Source:	<u>PLYMOUTH QUARRY</u>	Location:	<u>HANOVER, 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	91.3	35.2	8.1	1.9	1.3
CA Size:								
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	87.9	5.2	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.)			97.38		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 # 1	LA Type	LA Result
1	B	25.53

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:						
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:							

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 - 2016**

Vendor:	<u>G. LOPES</u>	Lab No:	<u>20160049</u>
Source:	<u>MIDDLEBORO PIT</u>	Location:	<u>MIDDLEBORO, 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	88.4	14.0	2.3	1.2	1.0
CA Size:1/2	100.0	100.0	100.0	100.0	91.6	43.2	2.1	0.8
CA Size:3/8	100.0	100.0	100.0	100.0	92.6	57.4	4.9	1.2
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.)			91.44	89.96	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	
	<u>B</u>	<u>31.18</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:		2.619	2.595	2.609		
Specific Gravity (SSD):		2.640	2.617	2.631		
Apparent Specific Gravity:		2.675	2.654	2.666		
Absorption:		0.810	0.856	0.815		

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	0.03		

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  
MATERIALS AND QUALITY ASSURANCE  
COARSE AGGREGATE ANALYSIS REPORT - 2016**

Vendor: CHERENZIA-WHITE ROCK Lab No: 20160058  
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	97.1	6.4	2.5	1.3	1.0
CA Size:1/2	100.0	100.0	100.0	100.0	56.9	5.4	1.0	0.9
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	93.0	21.4	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	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	40.27

**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:		2.619	2.603	2.596		
Specific Gravity (SSD):		2.638	2.621	2.614		
Apparent Specific Gravity:		2.670	2.652	2.644		
Absorption:		0.728	0.706	0.709		

**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						

Reviewed By \_\_\_\_\_ (Print / Sign)

Date \_\_\_\_\_

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
MATERIALS AND QUALITY ASSURANCE  
COARSE AGGREGATE ANALYSIS REPORT - 2016**

Vendor: <u>DYER</u>	Lab No: <u>20160061</u>
Source: <u>DYER QUARRY</u>	Location: <u>BIRDSBORO, PA</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:							

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 - 2016**

Vendor: CUMBERLAND QUARRY . Lab No: 20160068  
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	94.1	6.4	1.4	1.0	0.9
CA Size:1/2	100.0	100.0	100.0	100.0	84.3	7.9	1.0	0.8
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	95.4	14.8	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.)			94.41	95.90	91.51

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	29.71

**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:		2.747	2.717	2.678		
Specific Gravity (SSD):		2.769	2.736	2.695		
Apparent Specific Gravity:		2.809	2.769	2.724		
Absorption:		0.815	0.702	0.639		

**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	0.09		

**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						

Reviewed By \_\_\_\_\_ (Print / Sign)

Date \_\_\_\_\_



**RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
MATERIALS AND QUALITY ASSURANCE  
COARSE AGGREGATE ANALYSIS REPORT - 2016**

Vendor: <u>Continental Paving</u>	Lab No: <u>20160069</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:								
CA Size:1/2	100.0	100.0	100.0	100.0	94.2	33.0	1.7	1.0
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.)				97.38	
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	15.90	

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:			2.705			
Specific Gravity (SSD):			2.725			
Apparent Specific Gravity:			2.762			
Absorption:			0.762			

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:				0.25	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  
MATERIALS AND QUALITY ASSURANCE  
COARSE AGGREGATE ANALYSIS REPORT - 2016**

Vendor: <u>BENEVENTO QUARRY</u>	Lab No: <u>20160070</u>
Source: <u>READING, MA.</u>	Location: <u>READING, MA.</u>

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

<b>Unit Weight and Void in Aggregate</b>		<b>AASHTO T-19</b>				
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.)					

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

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

<b>Soundness of Aggregate by Use of Sodium Sulfate</b>		<b>AASHTO T-104</b>					
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:							

<b>Amount of Material Finer than # 200 Sieve in Aggregate</b>		<b>AASHTO T-11</b>				
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 - 2016**

Vendor: <u>BROOKLYN S &amp; G</u>	Lab No: <u>20160078</u>
Source: <u>WAREGAN 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:								
CA Size:1/2	100.0	100.0	100.0	100.0	83.9	20.4	3.2	1.8
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	98.0	27.7	4.4
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.)				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	31.40

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:							

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						