Vendor:	J.H. LYNCH	Lab No:	20190006
Source:	FIRST ST. QUARRY	Location:	CUMBERLAND, RI

ource: <u>FIR</u>	ST ST. QI	JARRY			]	Locati	ion: <u>C</u>	MBERLA	ND, RI	
Sieve Analysis o	f Coarse	Aggrega	ıte			A	ASHTO	Г-27		
% Passing									_	
	2"	1 1/2"	1"	3/4''	1/2"			44 #8		
CA Size:3/4	100.0	100.0	100.0	97.6	14.5			.0 1.8		
CA Size:1/2	100.0	100.0	100.0	100.0	74.1			.2 2.0		
CA Size:3/8	100.0	100.0	100.0	100.0	99.7	96	5.4 10	0.4 1.7		
CA Size:										
Jnit Weight and	l Void in	Aggreg	ate			A	ASHTO	Г-19		
0	Nomina	l Aggrega	ate Size:	1 1/2	2"	1"	3/4"	1/2"	3/8"	
Compacted			s./cu. ft.)				98.99		96.70	
	Nomina	l Aggrega	ate Size:	1 1/2	2"	1''	3/4"	1/2"	3/8"	
Loose		00 0	s./cu. ft.)	_	-		+			
		•			Machin	ie A	ASHTO	Г-96		
		•				ie A	ASHTO	Г-96		
	Run # 1	LA T	ype	LA l	Result	ie A	ASHTO	Г-96		
	Run # 1	LA T	ype	<b>LA</b> 1	Result	- A	ASHTO	Г-96		
Specific Gravity		LA T	ype	<b>LA</b> 1	Result		ASHTO			
Specific Gravity	and Abso	LA T	ype	<b>LA</b> 1	Result			Г-85		
	and Abse	LA T	ype  of Coar	LA 1	Result 3.28 regate	<u>-</u>	ASHTO	Г-85		
Nominal Aggre	and Absorpate Size:	LA T	of Coars	LA 1 18 se Agg 1/2"	Result 3.28 regate 3/4"	<u>-</u>	ASHTO	Г-85		
Nominal Aggree	and Absorpate Size: ravity: y (SSD):	LA T B orption #4	ype  of Coars  3/8"  2.768	LA 1 18 se Agg 1/2" 2.749	Result 3.28  regate  3/4''  2.774	<u>-</u>	ASHTO	Г-85		
Nominal Aggree Bulk Specific G Specific Gravity	and Absorpate Size: ravity: y (SSD):	LA T B orption #4	3/8" 2.768 2.781	18 se Agg 1/2" 2.749 2.759	Result 3.28  regate 3/4" 2.774 2.785	<u>-</u>	ASHTO	Г-85		
Nominal Aggree Bulk Specific G Specific Gravity Apparent Speci Absorption:	and Absorpate Size: ravity: y (SSD): fic Gravity:	LA T B orption #4	3/8" 2.768 2.781 2.806 0.490	18 se Agg 1/2" 2.749 2.759 2.776 0.356	Result 3.28  regate 3/4" 2.774 2.785 2.804 0.386	A 1"	ASHTO	Γ-85		
Nominal Aggree Bulk Specific G Specific Gravity Apparent Speci Absorption:  Soundness of Ag Sieve Size: 2	and Absorpate Size: ravity: y (SSD): fic Gravity:	LA T B orption #4	ype  of Coars  3/8"  2.768  2.781  2.806  0.490  f Sodium	18 se Agg 1/2" 2.749 2.759 2.776 0.356	Result 3.28  regate 3/4" 2.774 2.785 2.804 0.386	- A	ASHTO 1 1/2"	Г-85	4   #4-#8	
Bulk Specific G Specific Gravity Apparent Speci Absorption: Soundness of Ag	and Absorpate Size: ravity: y (SSD): fic Gravity: ggregate b	LA T B orption #4  by Use o	ype  of Coars  3/8"  2.768  2.781  2.806  0.490  f Sodium	18 se Agg 1/2" 2.749 2.759 2.776 0.356  n Sulfa	Result 3.28  regate  3/4"  2.774  2.785  2.804  0.386	A/	ASHTO	Г-85	4 #4-#8	
Nominal Aggree Bulk Specific G Specific Gravity Apparent Speci Absorption:  Soundness of Ag Sieve Size: 2	and Absorption (a) and Absorption (b) gate Size: ravity: y (SSD): fic Gravity: ggregate b	LA T B orption #4  by Use o	ype  of Coars  3/8" 2.768 2.781 2.806 0.490  f Sodium  1" 1"	18 se Agg 1/2" 2.749 2.759 2.776 0.356 m Sulfa - 3/4"	Result 3.28  regate  3/4" 2.774 2.785 2.804 0.386  nte  3/4" - 1	A/	ASHTO TASHTO TO 1/2" - 3/8	Γ-85	4 #4-#8	
Nominal Aggreg Bulk Specific G Specific Gravity Apparent Speci Absorption:  Soundness of Ag Sieve Size: 2 % Loss:	and Absorpate Size: ravity: y (SSD): fic Gravity: ggregate t " - 1 1/2" erial Fine	LA T B orption #4  by Use o	ype  of Coars  3/8" 2.768 2.781 2.806 0.490  f Sodiur  "" 1" 1" -	LA 1 18 se Agg 1/2" 2.749 2.759 2.776 0.356 m Sulfa - 3/4"	Result 3.28  regate  3/4" 2.774 2.785 2.804 0.386  nte  3/4" - 1	A/	ASHTO TASHTO TO 1/2" - 3/8	Γ-85	4 #4-#8	<u> </u>

Vendor:	PJ KEATING	Lab No:	20190009
Source:	PHENIX AVENUE QUARRY	Location:	CRANSTON, RI

ource: PH	ENIX AV	ENUE Q	UARRY	7	L	ocatio	n: CRAN	NSTON, F	RI
ieve Analysis % Passing	of Coarse	Aggrega	ite			AAS	SHTO T-2	7	
70 I assing	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	43.9	11.1	1.6	1.2	
CA Size:1/2	100.0	100.0	100.0	100.0	89.6	30.9	1.4	0.9	
CA Size:3/8	100.0	100.0	100.0	100.0	99.9	96.8	23.9	6.0	
CA Size:									
nit Weight an	d Void in	Aggreg	ate			AAS	SHTO T-1	9	
G 4.3	Nomina	ıl Aggrega	ate Size:	1 1/2	," ]	1"	3/4"	1/2"	3/8''
Compacted	-	eight: (lb		1			99.32	97.52	99.64
	Nomina	ıl Aggrega	ate Size	1 1/2	,,, ,	1''	3/4''	1/2"	3/8''
Loose		eight: (lb		1 1/2	<u> </u>		3/4	1/2	3/0
Resistance to A	brasion of	f CA by		ne LA N		e AAS	SHTO T-9	6	
	Run # 1	LA T	ype	<b>LA R</b>	Result	e AAS	SHTO T-9	6	
esistance to A	Run # 1	LA T	ype  of Coar	LA R 25 se Aggr	Result	AAS	SHTO T-9 SHTO T-8		
pecific Gravit	Run # 1 y and Abs	LA T	ype of Coars	25 se Aggr	Result .46 regate 3/4"				
pecific Gravit Nominal Aggr Bulk Specific (	Run # 1 y and Abs egate Size: Gravity:	LA T B orption	ype  of Coars  3/8"  2.730	25 se Aggr 1/2" 2.719	2.740	AAS	SHTO T-8		
pecific Gravit  Nominal Aggr  Bulk Specific Gravi	Run # 1 y and Abs egate Size: Gravity: ty (SSD):	LA T B orption #4	of Coars 3/8" 2.730 2.742	25 se Aggr 1/2" 2.719 2.731	2.740 2.750	AAS	SHTO T-8		
pecific Gravit  Nominal Aggr  Bulk Specific Gravi  Apparent Spec	Run # 1 y and Abs egate Size: Gravity: ty (SSD):	LA T B orption #4	ype  of Coars  3/8"  2.730  2.742  2.763	25 se Aggr 1/2" 2.719 2.731 2.753	2.740 2.768	AAS	SHTO T-8		
pecific Gravit  Nominal Aggr  Bulk Specific Gravi	Run # 1 y and Abs egate Size: Gravity: ty (SSD):	LA T B orption #4	of Coars 3/8" 2.730 2.742	25 se Aggr 1/2" 2.719 2.731	2.740 2.750	AAS	SHTO T-8		
Pecific Gravit  Nominal Aggr  Bulk Specific Gravi  Apparent Specific Gravi  Absorption:  oundness of A	Run # 1 y and Abs egate Size: Gravity: ty (SSD): cific Gravity	LA T B orption #4	3/8" 2.730 2.742 2.763 0.441	25 se Aggr 1/2" 2.719 2.731 2.753 0.454	2.740 2.750 2.768 0.379	AAS	SHTO T-8	5	
Pecific Gravit  Nominal Aggr Bulk Specific Gravi Apparent Specific Gravi	Run # 1 y and Abs egate Size: Gravity: ty (SSD): cific Gravity	LA T B orption #4	ype  of Coars  3/8"  2.730  2.742  2.763  0.441  f Sodium	25 se Aggr 1/2" 2.719 2.731 2.753 0.454 m Sulfa	2.740 2.750 2.768 0.379	AAS	SHTO T-8  1 1/2"  SHTO T-10  2" - 3/8"	5	#4-#8
Pecific Gravit  Nominal Aggr  Bulk Specific Gravi  Apparent Specific Gravi  Absorption:	Run # 1 y and Abs egate Size: Gravity: ty (SSD): cific Gravity  ggregate l	LA T B orption #4 :	ype  of Coars  3/8"  2.730  2.742  2.763  0.441  f Sodium	25 se Aggr 1/2" 2.719 2.731 2.753 0.454 m Sulfa	regate  3/4"  2.740  2.750  2.768  0.379  te	AAS	SHTO T-8  1 1/2"  SHTO T-10	5	#4-#8
Pecific Gravit  Nominal Aggr Bulk Specific Gravi Apparent Specific Gravi	Run # 1 y and Abs egate Size: Gravity: ty (SSD): eific Gravity  ggregate l 2" - 1 1/2"	LA T B orption #4 ::	ype  of Coars  3/8"  2.730  2.742  2.763  0.441  f Sodium  1"  1"  1"	25 se Aggr 1/2" 2.719 2.731 2.753 0.454 m Sulfa	regate  3/4" 2.740 2.750 2.768 0.379  te  3/4" - 1/ 0.21	AAS  AAS  2"   1/2	SHTO T-8  1 1/2"  SHTO T-10  2" - 3/8"  0.39	5 04 3/8'' - # 4	#4-#8
Pecific Gravit  Nominal Aggr Bulk Specific Gravit Apparent Specific Gravit Apparent Specific Gravit Absorption:  oundness of A  Sieve Size: % Loss:	Run # 1 y and Abs egate Size: Gravity: ty (SSD): cific Gravity ggregate l 2" - 1 1/2"	LA T B orption #4 ::	ype  of Coars  3/8"  2.730  2.742  2.763  0.441  f Sodium  1"  1"  1"	25 se Aggr 1/2" 2.719 2.731 2.753 0.454 m Sulfa	2.740 2.750 2.768 0.379 te 3/4" - 1/ 0.21	AAS  AAS  2"   1/2	SHTO T-8  1 1/2"  SHTO T-10  2" - 3/8"  0.39	5 04 3/8'' - # 4	#4-#8

Vendor:DRY BRIDGE S and SLab No:20190013Source:SLOCUM PITLocation:NORTH KINGSTOWN, RI

### **AASHTO T-27**

% Passing

8	2"	1 1/2"	1"	3/4''	1/2''	3/8''	#4	#8
CA Size:3/4	100.0	100.0	99.7	80.1	4.6	1.9	1.6	1.4
CA Size:1/2	100.0	100.0	100.0	98.5	57.3	10.0	1.0	0.8
CA Size:3/8	100.0	100.0	100.0	100.0	99.8	89.2	9.9	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.)			95.19	95.06	96.91
Omt Weight: (Ibs./cu. It.)			93.19	93.00	90

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

LA Type LA Result

**Run # 1** B 36.06

### 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:		2.612	2.611	2.619		
Specific Gravity (SSD):		2.634	2.633	2.636		
Apparent Specific Gravity:		2.672	2.669	2.664		
Absorption:		0.859	0.827	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:				0.04	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						

Vendor:LYNCH - TIVERTONLab No:20190017Source:FISH ROAD QUARRYLocation:TIVERTON, RI

<b>Sieve Analysis of Coarse Aggregate</b>	Sieve Ana	lysis of	Coarse A	Aggregate
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### **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	84.7	20.9	8.0	4.4	3.7
CA Size:1/2	100.0	100.0	100.0	100.0	97.7	35.4	3.0	1.9
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	96.2	10.5	4.9
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.)			94.87	90.08	93.11

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

LA Type LA Result

Run # 1 B 37.83

### Specific Gravity and Absorption of Coarse Aggregate AASHTO T-85

Nominal Aggregate Size:	# 4	3/8''	1/2''	3/4''	1''	1 1/2"
<b>Bulk Specific Gravity:</b>		2.621	2.616	2.614		
Specific Gravity (SSD):		2.635	2.631	2.626		
<b>Apparent Specific Gravity:</b>		2.659	2.656	2.646		
Absorption:		0.548	0.581	0.450		

### **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	0.06		

### 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						

Vendor:PJ KEATINGLab No:20190021Source:SOUTH MAIN ST. QUARRYLocation:ACUSHNET, MA

### **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	44.3	10.4	3.9	3.5
CA Size:1/2	100.0	100.0	100.0	100.0	87.9	38.7	3.7	2.5
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	93.8	24.1	5.7
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.)			95.82	95.36	97.24

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

LA Type LA Result

**Run # 1** B 19.63

### 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:		2.637	2.702	2.652		
Specific Gravity (SSD):		2.661	2.716	2.668		
<b>Apparent Specific Gravity:</b>		2.702	2.740	2.695		
Absorption:		0.905	0.519	0.606		

### **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	0.12		

### 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						

Vendor:SOUTH COUNTY S & GLab No:20190028Source:KLONDIKE PITLocation:CHARLESTON, RI

### **AASHTO T-27**

% Passing

	2''	1 1/2"	1"	3/4''	1/2''	3/8''	#4	#8
CA Size:1 1/2	100.0	100.0	47.9	6.1	2.1	1.9	1.6	1.5
CA Size:3/4	100.0	100.0	100.0	71.2	6.6	4.1	2.9	2.6
CA Size:1/2	100.0	100.0	100.0	100.0	71.5	13.0	1.7	1.2
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	90.3	11.3	2.4

### **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.)	92.20		90.74	90.61	94.96

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

LA Type LA Result

**Run # 1** B 56.89

### 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:		2.577	2.591	2.586		2.592
Specific Gravity (SSD):		2.601	2.611	2.606		2.611
<b>Apparent Specific Gravity:</b>		2.641	2.644	2.638		2.641
Absorption:		0.929	0.771	0.764		0.716

### 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	0.18		

### 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						

Vendor:CHERENZIALab No:20190029Source:OLD HOPKINTON RD.Location:WESTERLY, RI

Sieve Analysis of	Coarse Aggregate
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### **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	97.8	23.5	7.1	2.1	1.5
CA Size:1/2	100.0	100.0	100.0	100.0	60.0	9.7	1.3	1.0
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	95.6	19.8	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.)			91.79	89.49	90.39

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

LA Type LA Result

**Run # 1** B 30.08

### Specific Gravity and Absorption of Coarse Aggregate AASHTO T-85

Nominal Aggregate Size:	# 4	3/8''	1/2''	3/4''	1''	1 1/2"
<b>Bulk Specific Gravity:</b>		2.616	2.618	2.623		
Specific Gravity (SSD):		2.631	2.633	2.632		
<b>Apparent Specific Gravity:</b>		2.657	2.658	2.648		
Absorption:		0.602	0.575	0.362		

### **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						

Source: MIDDLEBORO PIT Location: MIDDLEBORO MA	Vendor:	G. LOPES	Lab No: 20190049	
Education Industrial Industrial Education Industrial Education Industrial Education Industrial Education Industrial	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	94.1	23.9	5.6	1.3	1.0
CA Size:1/2	100.0	100.0	100.0	100.0	98.4	75.3	8.5	1.9
CA Size:3/8	100.0	100.0	100.0	100.0	98.1	83.7	23.9	6.5
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.)			89.36	94.47	98.44
Cint Weight: (lbs./cu. it.)			07.30	74.47	70

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

	LA Type	LA Result
Run # 1	<u>B</u>	27.09

### 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	2.624	2.619		
Specific Gravity (SSD):		2.649	2.644	2.635		
<b>Apparent Specific Gravity:</b>		2.684	2.677	2.661		
Absorption:		0.776	0.756	0.611		

### 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	0.15		

### 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						

endor: <u>CH</u>	HERENZIA	-WHITI	E ROCK	-	I	Lab No:	2019	0058	
ource: W	HITE ROC	K QUAI	RRY		I	Location	: WES	TERLY, RI	
Sieve Analysis % Passing	of Coarse	Aggrega	nte			AAS	НТО Т-2	27	
70 1 d35Hig	2"	1 1/2"	1"	3/4''	1/2"	3/8"	#4	#8	
CA Size:3/4	100.0	100.0	100.0	90.1	11.3	6.3	4.2	3.7	
CA Size:1/2	100.0	100.0	100.0	100.0	69.2	12.2	1.2	1.0	
CA Size:3/8									
CA Size:									
nit Weight ar	nd Void in	Aggreg	ate			AAS	НТО Т-	19	
Commontod	Nomina	l Aggrega	ate Size:	1 1/2	2''	1"	3/4''	1/2"	3/8''
Compacted	Unit We	eight: (lb	os./cu. ft.)				97.36	92.44	
_	Nomina	l Aggrega	ate Size:	1 1/2	2''	1"	3/4''	1/2"	3/8''
Loose			ate Size: os./cu. ft.)		2''	1"	3/4"	1/2"	3/8"
Loose Resistance to A	Unit We	cight: (lb	use of the	he LA l	Machin Result		3/4" HTO T-		3/8"
	Unit We	eight: (lb	use of the	he LA l	Machin				3/8"
	Unit Weak brasion of Run # 1	eight: (Ib	use of the	he LA 1	Machin Result	e AAS		96	3/8"
Resistance to A  Specific Gravit  Nominal Aggr	Unit We Abrasion of Run # 1 ty and Absergate Size:	eight: (Ib	use of the	he LA 1	Machin Result	e AAS	HTO T-	96	3/8"
Resistance to A  Specific Gravit  Nominal Aggr  Bulk Specific	Unit Wo	Eight: (Ib	use of the sype	LA 1  38  se Agg  1/2"  2.608	Machin Result 3.33 regate 3/4" 2.622	e AAS	HTO T-:	96	3/8"
Pecific Gravit  Nominal Aggrander  Bulk Specific  Specific Gravit	Unit We Abrasion of Run # 1  ty and Absorbegate Size: Gravity: ty (SSD):	CA by  LA T  B  orption  #4	use of the sype	LA 1 38 se Agg 1/2" 2.608 2.623	Machin Result 3.33 regate 3/4" 2.622 2.633	e AAS	HTO T-:	96	3/8"
Resistance to A  Specific Gravit  Nominal Aggr  Bulk Specific  Specific Gravit  Apparent Spe	Unit We Abrasion of Run # 1  ty and Absorbegate Size: Gravity: ty (SSD):	CA by  LA T  B  orption  #4	use of the sype	se Agg 1/2" 2.608 2.623 2.649	Machin Result 3.33 regate  3/4" 2.622 2.633 2.651	e AAS	HTO T-:	96	3/8"
Resistance to A Specific Gravit  Nominal Aggr Bulk Specific Specific Gravit	Unit We Abrasion of Run # 1  ty and Absorbegate Size: Gravity: ty (SSD):	CA by  LA T  B  orption  #4	use of the sype	LA 1 38 se Agg 1/2" 2.608 2.623	Machin Result 3.33 regate 3/4" 2.622 2.633	e AAS	HTO T-:	96	3/8"
Resistance to A Specific Gravit  Nominal Aggr Bulk Specific Specific Gravit Apparent Spe	Unit We Abrasion of Run # 1  Ey and Absertegate Size: Gravity: Ety (SSD): Cific Gravity:	Eight: (Ib	use of the sype of Coar 3/8"	the LA 1  38  se Agg  1/2"  2.608  2.623  2.649  0.588	Machin Result 3.33 regate 3/4" 2.622 2.633 2.651 0.407	e AAS	HTO T-:	96	3/8"

### % Passing # 200 sieve

1"

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

1 1/2"

% Loss:

Aggregate Bin Size

ID# TL9-079 REV. 4/25/19

3/4"

0.03

1/2"

0.09

3/8"

#4

Vendor:	CARDI CORP.	Lab No:	20190066
Source:	Hopkins Hill	Location:	West Greenwich, RI

ource: Hop	kins Hill					Loca	ation:	West	Greenwicl	h, RI	
Sieve Analysis o	f Coarse	Aggrega	te				AASH	ITO T-2	7		
% 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	172	_	5.9	1.1	0.9		
CA Size:1/2	100.0	100.0	100.0	100.0	74		17.0	1.5	1.0		
CA Size:3/8	100.0	100.0	100.0	100.0	99	_	91.3	27.4	8.8		
CA Size:											
Unit Weight and	l Void in	Aggrega	ate				AASH	ITO T-1	9		
G	Nomina	ıl Aggrega	te Size:	1 1/2	2"	1"		3/4"	1/2"	3/8''	
Compacted		eight: (lb		<u> </u>			+	98.60	93.78	98.11	
T	Nomina	ıl Aggrega	te Size:	1 1/2	2"	1"		3/4''	1/2''	3/8''	
Loose	Unit W	eight: (lb	s./cu. ft.)								
		LA Ty	ype	LA ]	Result						
			ype								
	Run # 1	. <u>B</u>		3,	7.14						
Specific Gravity	and Abs	orption (	of Coars	se Agg	regat	e	AASH	ITO T-8	5		
Nominal Aggre	gate Size:	# 4	3/8"	1/2"	3/4''	1'	' 1	1/2"			
Bulk Specific G				2.613	2.612	2					
Specific Gravity	y (SSD):		2.630	2.626	2.625	5					
Apparent Speci	fic Gravity	:	2.652	2.647	2.646	5					
Absorption:			0.508	0.484	0.500	)					
Soundness of Ag	gregate l	oy Use of	f Sodiun	ı Sulfa	ate	1	AASH	TO T-10	)4		
Sieve Size: 2	'' - 1 1/2''	1 1/2" - 1	l" 1" -	3/4"	3/4''	- 1/2"	1/2''	- 3/8''	3/8'' - # 4	#4-#8	
% Loss:					0.	06	0	.24			
Amount of Mate	erial Fine	r than #	200 Siev	ve in A	ggre	gate	AASH	TO T-1	1		
Aggregate Bin S	Size	1 1/2"	1"	3/	/4''	1/2'	'	3/8"	# 4		
% Passing # 20	) sieve										

Vendor:CUMBERLAND QUARRY .Lab No:20190068Source:MANVILLE HILL ROADLocation:CUMBERLAND, RI

### **AASHTO T-27**

% Passing

S	2''	1 1/2"	1"	3/4"	1/2"	3/8''	#4	#8
CA Size:3/4	100.0	100.0	100.0	97.8	19.0	3.4	2.1	1.9
CA Size:1/2	100.0	100.0	100.0	100.0	93.6	26.9	1.7	1.3
CA Size:3/8	100.0	100.0	100.0	100.0	100.0	98.9	23.7	5.3
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.)			98.63	97.29	101.29

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

LA Type LA Result
B 22.06

Specific Gravity and Absorption of Coarse Aggregate AASHTO T-85

Nominal Aggregate Size:	# 4	3/8''	1/2''	3/4''	1''	1 1/2"
<b>Bulk Specific Gravity:</b>		2.792	2.707	2.780		
Specific Gravity (SSD):		2.806	2.722	2.791		
<b>Apparent Specific Gravity:</b>		2.831	2.749	2.812		
Absorption:		0.487	0.554	0.402		

### **Soundness of Aggregate by Use of Sodium Sulfate**

Run # 1

#### **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:				0.19	0.27		

### 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						

endor:	FORT MI	111	(D				Lab No:	2019	0080		
ource:	SCHUYL	ER\	ILLE NY Loca					: SCHUYLERVILLE NY			
Sieve Analy	ysis of Coa	rse A	Aggrega	ite			AAS	нто т-2	27		
% Passir											
		2"	1 1/2"	1"	3/4''	1/2"		#4	#8		
CA Size:3	<b>3/4</b> 10	0.0	100.0	100.0	99.5	53.8	29.7	3.3	2.1		
CA Size:											
CA Size:											
CA Size:											
J <b>nit Weig</b> h	nt and Voic	l in	Aggreg	ate			AAS	HTO T-1	19		
Compo	No	mina	l Aggrega	te Size:	1 1/2	2''	1"	3/4''	1/2''	3/8''	
Compacted Unit V		it We	eight: (lb				97.16				
-	Loose Nominal Ag			te Size:	1 1/2	2''	1"	3/4''	1/2"	3/8''	
Loos									+		
Resistance	to Abrasio			· · · · · · · · · · · · · · · · · · ·	e LA	Machi	ne AAS	HTO T-9	96		
Resistance	to Abrasio	n of	CA by	use of th	LA I	Result	ne AAS	<b>НТО</b> Т-9	06		
	to Abrasio	n of n # 1	CA by  LA T	use of th	<b>LA</b> 1	Result	ne AAS	нто т-9	96		
	to Abrasio	n of n # 1	CA by  LA T	use of th	<b>LA</b> 1	Result	_	HTO T-9			
pecific Gr	to Abrasio	on of n # 1 Abso	CA by  LA T	use of th	<b>LA</b> 1	Result	_				
Specific Gr	to Abrasio Ru ravity and	n # 1 Abso ze:	CA by  LA T  B  orption	use of th	28 se Agg	Result 8.83 regate	AAS	нто т-8			
Specific Gr Nominal A Bulk Spec	to Abrasio Ru ravity and Aggregate Si	n # 1 Abso	CA by  LA T  B  orption	use of th	28 se Agg	Result 3.83 regate 3/4"	AAS	нто т-8			
Nominal A Bulk Specific G Apparent	to Abrasio Ru ravity and Aggregate Si cific Gravity Gravity (SSD t Specific Gra	n # 1 Abso ze:	CA by  LA T  B  orption  #4	use of th	28 se Agg	Result 3.83  regate 3/4'' 2.643 2.666 2.706	AAS	нто т-8			
Specific Gr Nominal A Bulk Spec Specific G	to Abrasio Ru ravity and Aggregate Si cific Gravity Gravity (SSD t Specific Gra	n # 1 Abso ze:	CA by  LA T  B  orption  #4	use of th	28 se Agg	Result  3.83  regate  3/4''  2.643  2.666	AAS	нто т-8			
Nominal A Bulk Specific G Specific G Apparent Absorption	to Abrasio Ru ravity and Aggregate Si cific Gravity Gravity (SSD t Specific Gra	n # 1 Abso ze: : : : : : : : : : : : : : : : : : :	CA by  LA T  B  orption  #4	use of the	LA 1 28 8e Agg 1/2"	Result  3.83  regate  3/4''  2.643  2.666  2.706  0.877	AAS	нто т-8	35		
Nominal A Bulk Specific G Specific G Apparent Absorption	to Abrasio  Ru  ravity and  Aggregate Si cific Gravity: Gravity (SSD t Specific Gra  on:  of Aggrega	n # 1 Abso ze: : : : : : : : : : : : : : : : : : :	CA by  LA T  B  orption  #4	use of the sype of Coars 3/8"	LA 1 28 8e Agg 1/2"	Result  3.83  regate  3/4''  2.643  2.666  2.706  0.877	AAS	HTO T-8	35	#4-#8	
Specific Gr  Nominal A  Bulk Specific Good Apparent  Absorption  Soundness	to Abrasio  Ru  ravity and  Aggregate Si cific Gravity: Gravity (SSD t Specific Gra  on:  of Aggrega	n # 1 Abso ze: : : : : : : : : : : : : : : : : : :	CA by  LA T  B  Orption  # 4	use of the sype of Coars 3/8"	LA l 28 se Agg 1/2"	Result 3.83  regate 3/4" 2.643 2.666 2.706 0.877	AAS  AAS  1/2"   1/2	HTO T-8	04	#4-#8	
Nominal A Bulk Specific G Apparent Absorption Soundness Sieve Size % Loss:	to Abrasio  Ru  ravity and  Aggregate Si cific Gravity: Gravity (SSD t Specific Gra  on:  of Aggrega	n # 1 Abso ze: : : : : : : : : : : : : : : : : : :	CA by  LA T  B  Orption  # 4  by Use of	use of the sype  of Coars  3/8"  f Sodium  1" 1" -	LA 1 28 se Agg 1/2"  n Sulfa 3/4"	Result 3.83  regate  3/4" 2.643 2.666 2.706 0.877  ate  3/4" -	AAS  AAS  1''  AAS  1/2'' 1/2  2	HTO T-8  1 1/2"  HTO T-1  " - 3/8"  0.03	04 3/8" - # 4	# 4 - # 8	
Nominal A Bulk Specific G Apparent Absorption Soundness Sieve Size % Loss:	to Abrasio  Ru  ravity and  Aggregate Si cific Gravity: Gravity (SSD t Specific Gra on:  of Aggrega	n # 1 Abso ze: : : : : : : : : : : : : : : : : : :	CA by  LA T  B  Orption  # 4  by Use of	use of the sype  of Coars  3/8"  f Sodium  1" 1" -	LA 1 28 Se Agg 1/2"  n Sulfa 3/4"	Result 3.83  regate  3/4" 2.643 2.666 2.706 0.877  ate  3/4" -	AAS  AAS  1''  AAS  1/2'' 1/2  2	HTO T-8  1 1/2"  HTO T-1  " - 3/8"  0.03	04 3/8" - # 4	# 4 - # 8	

Vendor:	MIOZZI					Lab No:	2019	0082		
Source:	CAROLINA	RD.				Location	: CHA	RLESTOW	 /N. RI	
 Sieve Analy	sis of Coars	e Aggrega	nte			445	HTO T-2	77		
% Passin						71715	1110 1-2	-,		
, , , = ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2"	1 1/2"	1"	3/4''	1/2"	3/8''	#4	#8		
CA Size:3	/ <b>4</b> 100.0	100.0	100.0	87.7	23.1	6.0	1.7	1.2		
CA Size:1			100.0	100.0	98.2		4.2	2.6		
CA Size:3	/8 100.0	100.0	100.0	100.0	100.0	98.5	15.4	8.7		
CA Size:										
U <b>nit Weig</b> h	t and Void	n Aggreg	ate			AAS	HTO T-1	19		
Compa	Nomi	nal Aggreg	ate Size:	1 1/2	;''	1"	3/4''	1/2''	3/8''	
Compa	Unit V	Weight: (ll	s./cu. ft.)				93.10	91.26	97.13	
_	Nomi	nal Aggrega	ate Size:	1 1/2	;''	1"	3/4''	1/2"	3/8''	
Loos	se	Veight: (lk						1 -/-		
	Run #	LA T		LA R	<b>Result</b> .99					
Specific Gr	avity and Al	sorption	of Coars	e Aggr	egate	- AAS	<b>НТО Т-</b> 8	 85		
·	Aggregate Size:		3/8"	1/2"	3/4"		1 1/2"			
	eific Gravity:	,, ,,	5/0	1/2	5/4	-	1 1/2			
	Fravity (SSD):									
	Specific Gravi	ty:								
Absorptio	n:									
Soundness	of Aggregate	by Use o	f Sodium	Sulfa	te	AASI	HTO T-1	04		
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	7
% Loss:										]
Amount of	Material Fir	er than #	200 Siev	e in A	ggrega	ite AAS	HTO T-1	11		
Aggregate	e Bin Size	1 1/2"	1"	3/4	4''	1/2"	3/8''	# 4		
00 0	g # 200 sieve									