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

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

LA Type	LA Result
R	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

2" - 1 1/2"

Run # 1

3/4" - 1/2"	1/2" - 3/8"	3/8'' - # 4	#4-#8
0.37	0.39		

AASHTO T-104

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

1 1/2" - 1"

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

1" - 3/4"

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REV. 4/25/16

Sieve Size:

% Loss:

Vendor:	CARDI COR	P				Lab No	o: <u>201</u> ′	70008		
Source:	ARNOLD RE	NEW I	LONDON	1		Locatio	on: CO	n: 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:										
CA Size:										
CA Size:										
CA Size:										
Unit Weight and Void in Aggregate AASHTO T-19										
C	Nomina	l Aggrega	te Size:	1 1/2	"	1"	3/4''	1/2''	3/8"	
Compac	Unit Wo	eight: (lb	s./cu. ft.)		\neg					
	Namina	1 A gamaga	to Circa	1 1/2	,,	1"	3/4"	1/2"	3/8"	
Loose		l Aggrega eight: (lb		1 1/2		1	3/4	1/2	3/8	
	Oint W	eight: (ID	S./Cu. 11.)							
Resistance to	Abrasion of	CA by	use of th	ο Ι Λ Ν	/Jach	ino AA	сито т	100		
Resistance to	ADI asidii di	CA Dy	use of th	C LA N	iacii	ше да	SHTO T	-90		
		LA T	ype	LA R	esult					
	Run # 1	В								
Specific Gra	vity and Abs	orption	of Coars	e Aggr	egate	e AA	SHTO T	-85		
Nominal Ag	ggregate Size:	# 4	3/8"	1/2''	3/4"	1''	1 1/2"]		
Bulk Specif	ic Gravity:									
Specific Gr	avity (SSD):									
Apparent S	pecific 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	3
% Loss: 0.16 0.09										
Amount of Material Finer than # 200 Sieve in Aggregate AASHTO T-11										
Aggregate 1	Bin Size	1 1/2"	1"	3/4	ļ''	1/2"	3/8''	# 4		
% Passing		, -	+ -				1	- · · ·		
/or ussing ii add sieve										

Reviewed By (Print / Sign) Date ID# TL9-079 REV. 4/25/16

Vendor:	PJ KEATING	Lab No:	20170009
Source:	PHENIX AVENUE QUARRY	Location:	CRANSTON, RI

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
(1000 Cat 100)					

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	В	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

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						

Vendor:	MATERIALS S and S	Lab No: <u>20170012</u>
Source:	POUND HILL RD. QUARRY	Location: N. SMITHFIELD, RI

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

	LA Type	LA Result
Run # 1	В	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						

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

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

	LA Type	LA Result
Run # 1	В	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						

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

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

	LA Type	LA Result
Run # 1	В	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						

Vendor:	PJ KEATING	Lab No:	20170021
Source:	SOUTH MAIN ST. QUARRY	Location:	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	99.5	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

	LA Type	LA Result
Run # 1	В	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						

Vendor:	BRO	BROX IND DRACUT					ab No:	20170	024		
Source:	DRA	DRACUT QUARRY				L	ocation:	DRAC	CUT, MA		
Sieve Ana	alysis of	Coarse A	Aggrega	ite			AASH	TO T-27	7		
% Pass	sing										
		2''	1 1/2"	1"	3/4''	1/2''	3/8''	#4	#8		
CA Size		100.0	100.0	100.0	100.0	92.4	35.0	2.6	1.5		
CA Size											
CA Size		<u> </u>									
CA Size	:	<u> </u>					<u> </u>				
Unit Weig	ght and	Void in	Aggreg	ate			AASH	TO T-19)		
•	4. 3	Nomina	l Aggrega	ate Size:	1 1/2"	' 1	<u>'''</u>	3/4"	1/2"	3/8''	
Com	pacted			s./cu. ft.)			1	101.84			
			l Aggrega		1 1/2"	1 1	···	3/4"	1/2"	3/8''	
					1 1/4		L I	3/4	1/4	3/0	
	e to Abi	Unit We	eight: (lb	use of the	e LA M	achine	AASH	TO T-90	6		
Lo Resistanc		Unit We	eight: (lb	use of the		achine	AASH	ITO T-90	6		
Resistanc	e to Abi	Unit We	eight: (lb	use of the	e LA M LA Re	achine		ITO T-96			
Resistanc	e to Abi	Unit We	eight: (lb	use of the	e LA M LA Re e Aggre	achine	AASH				
Resistance Specific G Nomina Bulk Sp	e to Abi Gravity and Aggrega	Casion of Run # 1 and Absorate Size: avity:	Eight: (lb	use of the	e LA M LA Re e Aggree 1/2"	egate 3/4" 2.883	AASH	ITO T-85			
Resistanc Specific G Nomina Bulk Sp Specific	Gravity and Aggregate Gravity	rasion of Run # 1 and Absorate Size: avity: ((SSD):	CA by LA T B Orption # 4	use of the	e LA M LA Re e Aggre	Eachine esult egate 3/4" 2.883 2.902	AASH	ITO T-85			
Specific G Nomina Bulk Sp Specific Apparer	Gravity and Aggregate Gravity of the	Casion of Run # 1 and Absorate Size: avity:	CA by LA T B Orption # 4	use of the	e LA M LA Re e Aggree	2.883 2.902 2.937	AASH	ITO T-85			
Resistanc Specific G Nomina Bulk Sp Specific	Gravity and Aggregate Gravity of the	rasion of Run # 1 and Absorate Size: avity: ((SSD):	CA by LA T B Orption # 4	use of the	e LA M LA Re e Aggree	Eachine esult egate 3/4" 2.883 2.902	AASH	ITO T-85			
Specific G Nomina Bulk Sp Specific Apparer	Gravity and Aggregate Gravity ont Specific tion:	rasion of Run # 1 and Absorate Size: avity: (SSD): c Gravity:	CA by LA T B Orption #4	use of the	e LA M LA Re e Aggre	2.883 2.902 2.937	AASH	ITO T-85	5		
Specific G Nomina Bulk Sp Specific Apparer	Gravity and Aggregate Gravity on the Specific tion:	rasion of Run # 1 and Absorate Size: avity: (SSD): c Gravity:	CA by LA T B Orption #4	use of the ype of Coars 3/8"	e LA M LA Re e Aggre	2.883 2.902 2.937	AASH	1/2"	5	#4-#8	1
Specific G Nomina Bulk Sp Specific Apparer Absorpt	Gravity and Aggregate Gravity ont Specific Gravity on the Specific Gravity of Gravity on the Specific Gravity of Grav	rasion of Run # 1 and Absorate Size: avity: (SSD): c Gravity:	CA by LA T B Orption # 4	use of the ype of Coars 3/8"	e LA M LA Re e Aggre	2.883 2.902 2.937 0.635	AASH 1" 1 AASH 2" 1/2"	TO T-85	5	#4-#8	
Resistance Specific General Nomina Bulk Specific Apparete Absorpt Soundness Sieve	Gravity and Aggregate Gravity on Specific Grav	rasion of Run # 1 and Absorate Size: avity: (SSD): c Gravity: gregate b	CA by LA T B Orption # 4 Oy Use o	os./cu. ft.) use of the ype of Coars 3/8" f Sodium 1" 1" -	e LA M LA Re e Aggre 1/2" 2 2 3 3 4 Sulfate 3/4" 3	2.883 2.902 2.937 0.635	AASH AASH 2" 1/2" 0	TO T-10 - 3/8" .03	5 4 3/8'' - # 4	#4-#8]
Resistance Specific G Nomina Bulk Sp Specific Apparer Absorpt Soundnes Sieve Si: % Loss: Amount of	Gravity and Aggregate Gravity on Specific Grav	rasion of Run # 1 and Absorate Size: avity: (SSD): c Gravity: gregate b - 1 1/2"	CA by LA T B Orption # 4 Oy Use o	os./cu. ft.) use of the ype of Coars 3/8" f Sodium 1" 1" -	e LA M LA Re e Aggre 1/2" 2 2 3 3 4 Sulfate 3/4" 3	2.883 2.902 2.937 0.635 e	AASH AASH 2" 1/2" 0	TO T-10 - 3/8" .03	5 4 3/8'' - # 4	#4-#8]

endor:	J.S. LANE &	SON - V	VESTFIE	ELD		Lab No:	20170	0025	
ource:	WESTFIELD	ESTFIELD QUARRY				Location	: WES	WESTFIELD, MA	
Sieve Analysis of Coarse Aggregate						4 4 5	HTO T-2	97	
% Passing	•					AAS	п10 1-2	47	
7 0 1 u ssing	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	7 19.4	3.0	1.4	
CA Size:									
CA Size:									
CA Size:									
nit Weight	and Void in	Aggreg	ate			AAS	HTO T-1	19	
C	Nomina	l Aggrega	ate Size:	1 1/2	2''	1"	3/4''	1/2''	3/8''
Compact	ed	eight: (lb					105.41		
	Nomina			1 1/	2"	1"	3/4''	1/2"	3/8''
Loose	Loose Nominal Aggregate Si		iic bize.			1"		1/4	5/0
	Unit W	eight: (lb	os./cu. ft.)						
Resistance to	Abrasion of	CA by	use of th	LA I	Result	ne AAS	HTO T-9	96	
		CA by LA T	use of th	LA 1	Result	_	нто т-9 нто т-8		
pecific Gra	Abrasion of Run # 1	CA by LA T	use of th	LA 1	Result	_			
pecific Gra	Abrasion of Run # 1 vity and Abs	CA by LA T B orption	use of th	11 e Agg	Result 1.79 regate	- AAS	нто т-8		
pecific Gra Nominal Ag Bulk Specif	Abrasion of Run # 1 vity and Abs	CA by LA T B orption	use of th	11 e Agg	Result 1.79 regate 3/4"	- AAS	нто т-8		
pecific Gra Nominal Aş Bulk Specif	Abrasion of Run # 1 vity and Abs ggregate Size: ic Gravity:	CA by LA T B orption #4	use of th	11 e Agg	Result 1.79 regate 3/4" 2.889	- AAS	нто т-8		
Nominal Ag Bulk Specif Specific Gr	Run # 1 vity and Abs ggregate Size: ic Gravity: avity (SSD): pecific Gravity	CA by LA T B orption #4	use of th	11 e Agg	Result 1.79 regate 3/4" 2.889 2.919	- AAS	нто т-8		
Nominal Ag Bulk Specif Specific Gr Apparent S Absorption	Run # 1 vity and Abs ggregate Size: ic Gravity: avity (SSD): pecific Gravity	CA by LA T B orption #4	use of the	LA 1 11 e Agg	Result 1.79 regate 3/4" 2.889 2.919 2.981 1.071	AAS	нто т-8	35	
Nominal Ag Bulk Specif Specific Gr Apparent S Absorption	Run # 1 vity and Abs gregate Size: ic Gravity: avity (SSD): pecific Gravity	CA by LA T B orption #4	use of the special spe	LA 1 11 e Agg	Result 1.79 regate 3/4" 2.889 2.919 2.981 1.071	AAS	HTO T-8	35	# 4 - # 8
Nominal Ag Bulk Specific Gr Specific Gr Apparent S Absorption	Run # 1 vity and Abs gregate Size: ic Gravity: avity (SSD): pecific Gravity :	CA by LA T B orption #4 ::	use of the special spe	e Agg	Result 1.79 regate 3/4" 2.889 2.919 2.981 1.071	AAS AAS 1/2" 1/2	HTO T-8	04	# 4 - # 8
Nominal Ag Bulk Specific Gra Apparent S Absorption Soundness of Sieve Size: % Loss:	Run # 1 vity and Abs gregate Size: ic Gravity: avity (SSD): pecific Gravity :	CA by LA T B orption #4 :: by Use o 1 1/2" -	of Coars 3/8" f Sodium 1" 1" -	LA I 11 e Agg: 1/2" Sulfa 3/4"	Result 1.79 regate 3/4" 2.889 2.919 2.981 1.071 nte 3/4" - 0.2	AAS AAS 1" AAS 1/2" 1/2 1	HTO T-8 1 1/2" HTO T-10 " - 3/8" 0.24	04 3/8" - # 4	#4-#8
Nominal Ag Bulk Specific Gra Apparent S Absorption Soundness of Sieve Size: % Loss:	Run # 1 vity and Abs gregate Size: ic Gravity: avity (SSD): pecific Gravity : f Aggregate I 2" - 1 1/2" Iaterial Fine	CA by LA T B orption #4 :: by Use o 1 1/2" -	of Coars 3/8" f Sodium 1" 1" -	e Agg: 1/2" a Sulfa 3/4" re in A	Result 1.79 regate 3/4" 2.889 2.919 2.981 1.071 nte 3/4" - 0.2	AAS AAS 1" AAS 1/2" 1/2 1	HTO T-8 1 1/2" HTO T-10 " - 3/8" 0.24	04 3/8" - # 4	# 4 - # 8

Reviewed By (Print / Sign) Date
REV. 4/25/16

Vendor:	CHERENZIA	Lab No:	20170029
Source:	OLD HOPKINTON RD.	Location:	WESTERLY, RI

Sieve A	nalysis of	Coarse	Aggregate
DICYCAI	naiyəiə vi	Coarse	nggi cgaic

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

91.44	89.04
,	1.44

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	В	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

A	AASHT	TO T-10	04		
	1/011	2/011	2/011	11.4	

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						

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

LA Result LA Type

Run # 1 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						

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

bic to many sis of course rigging att	Sieve Ana	lysis 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	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

	LA Type	LA Result
Run # 1	В	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						

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

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

	LA Type	LA Result
Run # 1	В	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						

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

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

	LA Type	LA Result
Run # 1	В	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						

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

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

	LA Type	LA Result
Run # 1	В	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						

Vendor:	Continental Paving	Lab No:	20170069
Source:	Hanover, NH	Location:	NH

Source:	Hanov	er, NH				I	Location	n: <u>NH</u>			
Sieve Anal	ysis of (Coarse A	Aggrega	ıte			AAS	SHTO T-27	7		
% Passi	-										
	Ü	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:											
J nit Weig l	ht and V	Void in	Aggreg	ate			AAS	SHTO T-19	9		
C	, ,	Nomina	l Aggrega	ate Size:	1 1/2	2"	1"	3/4''	1/2"	3/8''	
Compa	acted			s./cu. ft.)					94.41		
			l Aggrega		1 1/2	· · · · · · · · · · · · · · · · · · ·	1"	3/4"	1/2"	3/8"	
Loo	ose			s./cu. ft.)	1 1/2	-	1	3/4	1/2	3/6	
		CIIIC VVC	agnt. (III	18./Cu. 11.)							
Resistance	to Abra	asion of	CA by			Machin Result	e AAS	SHTO T-90	6		
Resistance	to Abra	asion of Run # 1	•	ype	LA I		e AAS	SHTO T-96	6		
		Run # 1	LA T	уре	LA I	Result		SHTO T-96 SHTO T-8:			
	ravity a	Run # 1	LA T	уре	LA I	Result					
Specific G	ravity a	Run # 1 nd Abso	LA T	ype of Coars	15 se Agg	Result .78 regate	AAS	SHTO T-8:			
Specific Good Nominal Bulk Spe	ravity a Aggregat cific Gra Gravity (S	Run # 1 nd Abso te Size: vity: SSD):	LA T B orption #4	ype of Coars	15 se Agg	Result .78 regate	AAS	SHTO T-8:			
Nominal Bulk Spe Specific (Apparent	ravity a Aggregat cific Gra Gravity (S t Specific	Run # 1 nd Abso te Size: vity: SSD):	LA T B orption #4	ype of Coars	LA I 15 Se Agg 1/2" 2.734 2.747 2.769	Result .78 regate	AAS	SHTO T-8:			
Specific Ga Nominal Bulk Spe Specific G	ravity a Aggregat cific Gra Gravity (S t Specific	Run # 1 nd Abso te Size: vity: SSD):	LA T B orption #4	ype of Coars	LA I 15 Se Agg 1/2" 2.734 2.747	Result .78 regate	AAS	SHTO T-8:			
Nominal Bulk Spe Specific C Apparent Absorption	Aggregat cific Gra Gravity (S t Specific on:	Run # 1 nd Abso te Size: vity: SSD): Gravity:	LA T B orption #4	of Coars	LA I 15 se Aggr 1/2" 2.734 2.747 2.769 0.458	Result .78 regate 3/4"	1"	SHTO T-8:	5		
Specific Grant Nominal Bulk Specific Grant Absorption Soundness	Aggregate cific Grading Gravity (Standard Specific on:	Run # 1 nd Abso te Size: vity: SSD): Gravity:	LA T B Orption #4 by Use o	of Coars 3/8" f Sodium	LA I 15 se Agg 1/2" 2.734 2.747 2.769 0.458 n Sulfa	Result .78 regate 3/4"	AAS	SHTO T-8: 1 1/2" CHTO T-10	5	#4-#8	1
Nominal Bulk Spe Specific C Apparent Absorption	Aggregate cific Grading Gravity (Standard Specific on:	Run # 1 nd Abso te Size: vity: SSD): Gravity:	LA T B orption #4	of Coars 3/8" f Sodium	LA I 15 se Aggr 1/2" 2.734 2.747 2.769 0.458	Result 7.78 regate 3/4" te	AAS /2" 1/2	SHTO T-8:	5	#4-#8	
Specific Grant Nominal Bulk Specific Grant Absorption Soundness Sieve Size % Loss:	Aggregate cific Grading Gravity (St Specific on: of Aggregate 2" -	Run # 1 nd Abso te Size: vity: SSD): Gravity: regate b	LA T B Orption #4 by Use o	of Coars 3/8" f Sodium 1" 1" -	LA I 15 Se Aggr 1/2" 2.734 2.747 2.769 0.458 n Sulfa	Result .78 regate 3/4" te 0.16	AAS AAS /2" 1/2	SHTO T-8: 1 1/2" CHTO T-10 2" - 3/8" 0.09	3/8" - # 4	# 4 - # 8	
Specific Grant Specific Grant Absorption Soundness Sieve Size % Loss:	Aggregat cific Gra Gravity (St Specific on: of Aggregat E Materi	Run # 1 nd Abso te Size: vity: SSD): Gravity: regate b	LA T B Orption # 4 by Use o 1 1/2" -	ype of Coars 3/8" f Sodium 1" 1" -	LA I 15 Se Agg 1/2" 2.734 2.747 2.769 0.458 m Sulfa 3/4" ve in A	Result .78 regate 3/4" te 3/4" - 1 0.16 ggrega	AAS /2" 1/2 te AAS	SHTO T-8: 1 1/2" SHTO T-10 2" - 3/8" 0.09 SHTO T-1:	5 3/8" - # 4	#4-#8	
Bulk Spe Specific (Apparent Absorption Soundness	Aggregat cific Gravity (S t Specific on: of Aggregat f Materi	Run # 1 nd Abso te Size: vity: SSD): Gravity: regate b	LA T B Orption #4 by Use o	ype of Coars 3/8" f Sodium 1" 1" -	LA I 15 Se Agg 1/2" 2.734 2.747 2.769 0.458 m Sulfa 3/4" ve in A	Result .78 regate 3/4" te 3/4" - 1 0.16 ggrega	AAS AAS /2" 1/2	SHTO T-8: 1 1/2" CHTO T-10 2" - 3/8" 0.09	3/8" - # 4	# 4 - # 8	

Vendor:	BROOKLYN S & G	Lab No:	20170078
Source:	WAUREGAN RD PIT	Location:	BROOKLYN CONN

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

	LA Type	LA Result
Run # 1	В	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						