endor: <u>J.H. I</u>	LYNCH				I	Lab No:	20150)006	
urce: <u>FIRS'</u>	T ST. QU	JARRY			I	Location:	CUM	BERLAND	, RI
eve Analysis of	Coarse A	Aggrega	ite			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	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		26.5	2.9	
CA Size:	10010	100.0	100.0	100.0	100.0	70.1	20.0	1 20	
				•	•	'	'		
nit Weight and	Void in	Aggreg	ate			AASH	ITO T-1	9	
Nominal Aggrega	te Size:	1 1/2"	' 1	"	3/4"	1/2''	3/8"	,	
Unit Weight: (lb					107.79	97.38	103.8		
esistance to Abr	casion of	CA by LA T	ype	LA l	Machin Result	e AASH	ITO T-9	6	
pecific Gravity a	Run#1	LA T B orption	ype of Coar	LA 1	Result 4.88 regate	AASE	ITO T-9		
pecific Gravity a	Run # 1 and Abso	LA T	ype of Coar	LA 1	Result 4.88 regate 3/4"	AASE			
Decific Gravity a Nominal Aggrega Bulk Specific Gra	Run # 1 and Absorte Size: avity:	LA T B orption	ype of Coar 3/8" 2.983	LA 1 12 rse Agg 1/2" 2.926	Result 4.88 regate 3/4" 3.055	AASE	ITO T-8		
Decific Gravity a Nominal Aggrega Bulk Specific Gravity (Run # 1 and Absorte Size: avity: (SSD):	LA T B orption #4	ype of Coar 3/8" 2.983 3.002	LA 1 2 rse Agg 1/2'' 2.926 2.940	Result 4.88 regate 3/4" 3.055 3.063	AASE	ITO T-8		
Nominal Aggrega Bulk Specific Gravity (Specific Gravity (Apparent Specific	Run # 1 and Absorte Size: avity: (SSD):	LA T B orption #4	3/8" 2.983 3.002 3.039	LA 1 12 rse Agg 1/2" 2.926 2.940 2.968	Result 4.88 regate 3/4" 3.055 3.063 3.078	AASE	ITO T-8		
Decific Gravity a Nominal Aggrega Bulk Specific Gravity (Run # 1 and Absorte Size: avity: (SSD):	LA T B orption #4	ype of Coar 3/8" 2.983 3.002	LA 1 12 rse Agg 1/2" 2.926 2.940 2.968	Result 4.88 regate 3/4" 3.055 3.063	AASE	ITO T-8		
Nominal Aggrega Bulk Specific Gra Specific Gravity (Apparent Specific Absorption:	Run # 1 and Absorte Size: avity: (SSD): c Gravity: gregate b	LA T B Orption # 4 Oy Use o	3/8" 2.983 3.002 3.039 0.615	1/2" 2.926 2.940 2.968 0.481 m Sulfa	3/4" 3.055 3.063 3.078 0.241	AASH	TO T-10	5	
Nominal Aggrega Bulk Specific Gravity (Apparent Specific Absorption: Dundness of Agg Sieve Size: 2"	Run # 1 and Absorte Size: avity: (SSD): c Gravity:	LA T B orption #4	3/8" 2.983 3.002 3.039 0.615	1/2" 2.926 2.940 2.968 0.481	Result 4.88 regate 3/4" 3.055 3.063 3.078 0.241	AASH	1/2"	5	# 4 - # 8
Nominal Aggrega Bulk Specific Gra Specific Gravity (Apparent Specific Absorption:	Run # 1 and Absorte Size: avity: (SSD): c Gravity: gregate b	LA T B Orption # 4 Oy Use o	3/8" 2.983 3.002 3.039 0.615	1/2" 2.926 2.940 2.968 0.481 m Sulfa	3/4" 3.055 3.063 3.078 0.241	AASH /2" 1/2"	TO T-10	5	#4-#8
Nominal Aggrega Bulk Specific Gravity (Apparent Specific Absorption: Dundness of Agg Sieve Size: 2"	Run # 1 and Absorate Size: avity: (SSD): c Gravity: gregate b	LA T B orption #4 by Use o	3/8" 2.983 3.002 3.039 0.615 f Sodium	LA 1 2 rse Agg 1/2" 2.926 2.940 2.968 0.481 m Sulfa - 3/4"	Result 4.88 regate 3/4" 3.055 3.063 3.078 0.241 ate 3/4" - 1 0.40	AASH /2" 1/2" 0	TO T-10 - 3/8" 0.63	5 04 3/8" - # 4	#4-#8
Nominal Aggrega Bulk Specific Gravity (Apparent Specific Absorption: Oundness of Agg Sieve Size: 2" % Loss:	Run # 1 and Absorte Size: avity: (SSD): c Gravity: gregate b	LA T B orption #4 by Use o	3/8" 2.983 3.002 3.039 0.615 f Sodium 1" 1" 200 Sie	LA 1 2 rse Agg 1/2" 2.926 2.940 2.968 0.481 m Sulfa - 3/4"	Result 4.88 regate 3/4" 3.055 3.063 3.078 0.241 ate 3/4" - 1 0.40 aggrega	AASH /2" 1/2" 0	TO T-10 - 3/8" 0.63	5 04 3/8" - # 4	#4-#8

Reviewed By Date (Print / Sign) **REV. 5/1/15**

RHODE ISLAND DEPARTMENT OF TRANSPORTATION MATERIALS AND QUALITY ASSURANCE

endor:	PJ KEAT	ΓING]	Lab No:	20150	0009		
ource:	PHENIX	AVE	ENUE Q	UARR'	Y	1	Location:	CRA	NSTON, RI		
1° A I	• 60										
ieve Anal % Passi	ysis of Coa	arse A	Aggrega	ite			AASH	ITO T-2	7		
/0 1 assi		2''	1 1/2"	1"	3/4"	1/2"	3/8''	#4	#8		
CA Size:	3/4 10	0.00	100.0	100.0	91.8	24.1	6.3	2.0	1.6		
CA Size:	1/2 10	0.00	100.0	100.0	100.0	79.0	25.3	2.1	1.5		
CA Size:	3/8 10	0.00	100.0	100.0	100.0	99.8	93.0	31.6	8.5		
CA Size:											
nit Weigl	ht and Voi	d in	Aggreg	ate			AASH	ITO T-1	9		
Nominal	Aggregate Si	ize:	1 1/2"	1	"	3/4''	1/2''	3/8'	•		
	ght: (lbs./cu		11,2	+		95.90	92.93	98.9	_		
Resistance	to Abrasio		CA by	ype	LA			TO T-9			
		on of in # 1	LA T	ype	LA 3	Machin Result	ne AASH	TO T-9	6		
Specific G	Ru	on of m#1 Abso	LA T	ype	LA 3	Machin Result	ne AASH		6		
Specific Gr	Ru ravity and	on of un # 1 Abso	LA T	ype of Coar	LA 30 cree Agg	Machin Result 0.52 gregate	ne AASH	ITO T-8	6		
Specific Gr Nominal Bulk Spe	Ruravity and	on of un # 1 Abso	LA T	ype of Coar	1/2"	Machin Result 0.52 regate	ne AASH	ITO T-8	6		
Specific Gr Nominal Bulk Spe Specific G	Ruravity and Aggregate Sicific Gravity	on of Abso ize:	LA T	3/8" 2.667	1/2" 2.655	Machin Result 0.52 gregate 3/4" 2.705	ne AASH	ITO T-8	6		
Specific Gr Nominal Bulk Spe Specific G	Rund Aggregate Sicific Gravity (SSD t Specific Gravity (Specific G	on of Abso ize:	LA T	3/8" 2.667 2.682	1/2" 2.655 2.682	Machin Result 0.52 regate 3/4" 2.705 2.725	ne AASH	ITO T-8	6		
Nominal Bulk Spe Specific (Apparent Absorption	Runavity and Aggregate Sicific Gravity Gravity (SSD) t Specific Gravity on:	Absorbatics: ize: ize: ize: avity:	LA Ty B orption # 4	3/8" 2.667 2.682 2.707 0.556	1/2" 2.655 2.682 2.730 1.041 m Sulfa	Machin Result 0.52 regate 3/4" 2.705 2.725 2.761 0.753 ate	AASH	TO T-8	04	шл шо	
Nominal Bulk Spe Specific C Apparent Absorption	Runavity and Aggregate Sicific Gravity Gravity (SSD) t Specific Gravity on:	Absorbatics: ize: ize: ize: avity:	LA T	3/8" 2.667 2.682 2.707 0.556	LA 30 31 31 31 31 31 31 31 31 31 31 31 31 31	Machin Result 0.52 gregate 3/4" 2.705 2.725 2.761 0.753 ate	AASH AASH 1" 1 AASH 1/2" 1/2"	TO T-10	55	#4-#8	
Nominal Bulk Spe Specific (Apparent Absorption	Runavity and Aggregate Sicific Gravity Gravity (SSD) t Specific Gravity on:	Absorbants:	LA Ty B orption # 4	3/8" 2.667 2.682 2.707 0.556	1/2" 2.655 2.682 2.730 1.041 m Sulfa	Machin Result 0.52 regate 3/4" 2.705 2.725 2.761 0.753 ate	AASH AASH 1" 1 AASH 1/2" 1/2"	TO T-8	04	# 4 - # 8	
Nominal Bulk Spe Specific G Apparent Absorption Soundness Sieve Size % Loss:	Runavity and Aggregate Sicific Gravity Gravity (SSD) t Specific Gravity on:	on of Abso ize: c: c: c: c: cavity:	LA T	3/8" 2.667 2.682 2.707 0.556 f Sodiu	1/2" 2.655 2.682 2.730 1.041 m Sulfa	Machin Result 0.52 regate 3/4" 2.705 2.725 2.761 0.753 ate 3/4" - 1 0.22	AASH AASH 1" 1 AASH 1/2" 1/2" 0	TO T-10 - 3/8" .30	04 3/8" - # 4	#4-#8	
Nominal Bulk Spe Specific (Apparent Absorption Soundness Sieve Size % Loss:	Ruravity and Aggregate Sicific Gravity Gravity (SSD t Specific Gravity on: of Aggreg	on of Abso ize: c: c: c: c: cavity:	LA T	3/8" 2.667 2.682 2.707 0.556 f Sodiu	1/2" 2.655 2.682 2.730 1.041 m Sulfa	Machin Result 0.52 regate 3/4" 2.705 2.725 2.761 0.753 ate 3/4" - 1 0.22	AASH AASH 1" 1 AASH 1/2" 1/2" 0	TO T-10 - 3/8" .30	04 3/8" - # 4	#4-#8	

Reviewed By Date (Print / Sign) **REV. 5/1/15**

endor: MAT	ERIALS	S and S)]	Lab No:	20150	012	
ource: POUN	ND HILI	RD. Q	UARRY	<i>I</i>]	Location:	N. SM	ITHFIELI	O, RI
ieve Analysis of (Coarse A	A ggrega	ıte			AASH	TO T-27	7	
% Passing									
G . G . 24	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 CA Size:3/8	100.0	100.0	100.0	100.0	_	27.8 96.5	2.3	2.7	
CA Size:	100.0	100.0	100.0	100.0	99.1	90.3	20.9	2.7	
CH Size.									
nit Weight and \	Void in	Aggreg	ate			AASH	TO T-19)	
Nominal Aggregat	te Size:	1 1/2"	1	••	3/4"	1/2''	3/8''	\neg	
Unit Weight: (lbs		1 1/2	+		91.44	91.44	89.04		
esistance to Abra	<u> </u>	CA by LA T	ype	LA	Machin Result 2.40	ne AASH	TO T-96	5	
esistance to Abra	asion of	LA T	ype	LA 3:	Result	-	TO T-96		
	asion of Run # 1 nd Abso	LA T	ype	LA 3:	Result	- AASH			
pecific Gravity a	asion of Run # 1 nd Abso	LA T	ype of Coar	LA 3 cse Agg	Result 2.40 gregate	- AASH	TO T-85		
pecific Gravity a Nominal Aggregat Bulk Specific Gra Specific Gravity (Run # 1 nd Abso te Size: vity: SSD):	LA T	ype of Coar	LA 3: rse Agg 1/2"	Result 2.40 regate 3/4" 2.591 2.613	- AASH	TO T-85		
pecific Gravity a Nominal Aggregate Bulk Specific Gra	Run # 1 nd Abso te Size: vity: SSD):	LA T	ype of Coar 3/8" 2.599	LA 3 rse Agg 1/2" 2.604 2.629 2.670	2.40 gregate 3/4" 2.591	- AASH	TO T-85		
pecific Gravity a Nominal Aggregat Bulk Specific Gra Specific Gravity (Run # 1 nd Abso te Size: vity: SSD):	LA T	3/8" 2.599 2.634	LA 3: rse Agg 1/2" 2.604 2.629	Result 2.40 regate 3/4" 2.591 2.613	- AASH	TO T-85		
Pecific Gravity a Nominal Aggregat Bulk Specific Gra Specific Gravity (Apparent Specific Absorption: oundness of Agg	Run # 1 nd Abso te Size: vity: SSD):	LA T	3/8" 2.599 2.634 2.695 1.370 f Sodium	LA 3 rse Agg 1/2" 2.604 2.629 2.670 0.945	Result 2.40 gregate 3/4" 2.591 2.613 2.650 0.859	AASH	TO T-85	5	#4-#8
Nominal Aggregat Bulk Specific Gra Specific Gravity (SAPPARENT SPECIFIC Absorption: oundness of Agg Sieve Size: 2"	asion of Run # 1 nd Abso te Size: vity: SSD): Gravity: regate b	LA T B orption # 4 y Use o	3/8" 2.599 2.634 2.695 1.370 f Sodiu	LA 3 rse Agg 1/2" 2.604 2.629 2.670 0.945 m Sulfa - 3/4"	Result 2.40 gregate 3/4" 2.591 2.613 2.650 0.859 ate	AASH AASH 1/2" 1/2"	TO T-10	3/8" - # 4	#4-#8
Nominal Aggregate Bulk Specific Gravity (Specific Gravity (Specific Gravity (Specific Absorption: Oundness of Aggregate Sieve Size: 2" - 2" - 2" - 2" - 2" - 2" - 2" - 2"	Run # 1 nd Abso te Size: vity: SSD): c Gravity: regate b	LA T B orption # 4 y Use o	3/8" 2.599 2.634 2.695 1.370 f Sodiu	LA 3 rse Agg 1/2" 2.604 2.629 2.670 0.945 m Sulfa - 3/4"	Result 2.40 gregate 3/4" 2.591 2.613 2.650 0.859 ate	AASH AASH 1/2" 1/2"	TO T-10	3/8" - # 4	#4-#8

endor: <u>I</u>	ORY BRIDGI	E S and	S]	Lab No:	20150	0013	
ource: <u>S</u>	SLOCUM PIT]	Location	NOR'	TH KINGS'	TOWN, RI
ieve Analysi	is of Coarse A	\	ıte.			A A C1	нто т-2	7	
% Passing	of Course 1	1551 050				AASI	110 1-2	<i>. I</i>	
, v 1 ussang	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:									
nit Weight	and Void in	Aggreg	ate			AASI	НТО Т-1	9	
Nominal Ag	gregate Size:	1 1/2"	1	"	3/4''	1/2''	3/8'	•	
Unit Weight	: (lbs./cu. ft.)				94.41	92.93	98.9	1	
	Run # 1	LA T	, P		Result 4.80				
				-		_			
pecific Grav	ity and Abso	orption	of Coai	rse Agg	gregate	AASI	нто т-8	35	
Nominal Ag	gregate Size:	# 4	3/8''	1/2''	3/4"	1"	1 1/2"		
Bulk Specifi	c Gravity:		2.595	2.609	2.620				
Specific Gra	vity (SSD):		2.628	2.639	2.645				
	pecific Gravity:		2.684	2.689	2.688				
Absorption:			1.279	1.131	0.963				
oundness of	Aggregate b	y Use o	f Sodiu	m Sulf	ate	AASH	ITO T-10	04	
Sieve Size:	2" - 1 1/2"	1 1/2" -	1" 1"	- 3/4"	3/4" - 1	1/2" 1/2"	' - 3/8''	3/8'' - # 4	#4-#8
					0.07	' (0.42		
% Loss:									
	[a4aada] E'	41	200 C!	• . 4		4		_	
	laterial Finer	than #	200 Sie	eve in A	Aggrega	te AASI	HTO T-1	1	
		than #	200 Sie		Aggrega	ite AASI	HTO T-1	1 #4	

Reviewed By Date (Print / Sign)

% Passing # 200 sieve

endor: <u>LY</u>	NCH - TIV	'ERTO	1		I	Lab No:	201500	017
ource: FIS	H ROAD (QUARR	Ϋ́		I	Location:	TIVER	RTON, R
ieve Analysis o	f Coarse A	Aggrega	ıte			AASH	ITO 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:								
•4 \$\$7 • 1 4	1 7 . 1 .		4					
nit Weight and		Aggreg		"	3/4"	1/2"	TO T-19	·
Nominal Aggre Unit Weight: (gate Size:			"	3/4'' 94.41			
Nominal Aggre Unit Weight: (Resistance to Al	gate Size: lbs./cu. ft.) orasion of Run # 1	1 1/2' CA by LA T	use of t	he LA LA	94.41 Machin Result 4.98	1/2" 91.44 e AASH	3/8" 93.98 ITO T-96	<u> </u>
Nominal Aggre Unit Weight: (Resistance to Al	gate Size: lbs./cu. ft.) prasion of Run # 1	CA by LA T B Orption	use of t ype of Coai	he LA LA 3 rse Agg	94.41 Machin Result 4.98 gregate	1/2" 91.44 e AASH	3/8" 93.98 TTO T-96	<u> </u>
Nominal Aggre Unit Weight: (esistance to Al pecific Gravity Nominal Aggre	gate Size: lbs./cu. ft.) prasion of Run # 1 and Absorgate Size:	1 1/2' CA by LA T	use of t ype of Coai	he LA LA 3 rse Agg 1/2"	94.41 Machin Result 4.98 gregate	1/2" 91.44 e AASH	3/8" 93.98 ITO T-96	<u> </u>
Nominal Aggre Unit Weight: (esistance to Al pecific Gravity Nominal Aggre Bulk Specific G	gate Size: lbs./cu. ft.) prasion of Run # 1 and Absorgate Size: ravity:	CA by LA T B Orption	use of t ype of Coai 3/8" 2.601	he LA LA 3 rse Agg 1/2" 2.572	94.41 Machin Result 4.98 gregate 3/4" 2.589	1/2" 91.44 e AASH	3/8" 93.98 TTO T-96	<u> </u>
Nominal Aggre Unit Weight: (Resistance to Al pecific Gravity Nominal Aggre	gate Size: lbs./cu. ft.) prasion of Run # 1 and Absorbate gate Size: ravity: y (SSD):	1 1/2' CA by LA T B Orption # 4	use of t ype of Coai	he LA LA 3 rse Agg 1/2"	94.41 Machin Result 4.98 gregate	1/2" 91.44 e AASH	3/8" 93.98 TTO T-96	<u> </u>

Amount of Material Finer than # 200 Sieve in Aggregate AASHTO 7	nount of Material Finer than # 200 Sieve in	Aggregate	AASHTO T-1
-----------------------------------------------------------------	---------------------------------------------	-----------	------------

1 1/2" - 1"

2" - 1 1/2"

Sieve Size:

% Loss:

ID# TL9-079

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

1" - 3/4"

3/4" - 1/2"

0.68

(Print / Sign) **REV. 5/1/15**

1/2" - 3/8"

0.90

3/8" - # 4

#4-#8

ndor: PJ KEAT	ΓING]	Lab No:	2015	0021	
rce: SOUTH	MAII	N ST. Q	UARRY	Y]	Location	ACU	SHNET,	MA
eve Analysis of Coa	arse A	Aggrega	ıte			AAS	нто т-2	27	
% Passing	2''	1 1/2"	1"	3/4"	1/2"	3/8''	#4	#8	7
CA Size:3/4 1	0.00	100.0	100.0	93.5	13.8	2.4	0.9	0.8	1
CA Size:1/2 1	0.00	100.0	100.0	99.9	97.8	7.0	2.0	0.4	1
CA Size:3/8	0.00	100.0	100.0	100.0	100.0	64.2	10.7	4.9	1
CA Size:									7
Nominal Aggregate S	Size:	1 1/2'	1	''	3/4''	1/2''	3/8	"	
Nominal Aggregate S Unit Weight: (lbs./cr sistance to Abrasi	u. ft.)				94.41	97.38	3/8 93.9 HTO T-9	8	
Unit Weight: (lbs./cr	u. ft.)	CA by	use of t	he LA	94.41 Machin Result	97.38	93.9	8	
Unit Weight: (lbs./cr	u. ft.)	CA by	use of t	he LA	94.41 Machin	97.38	93.9	8	
Unit Weight: (lbs./cr	on of	CA by LA T	use of t	he LA LA	94.41 Machin Result 1.45	97.38 ne AAS	93.9	96	
Unit Weight: (lbs./cr	u. ft.) fon of un # 1	CA by LA T	use of t	he LA LA	94.41 Machin Result 1.45	97.38 ne AAS	93.9 HTO T-9	96	
Unit Weight: (lbs./cr	u. ft.) on of un # 1 l Abso	CA by LA T B Drption	use of t	he LA LA 2 rse Agg	94.41 Machin Result 1.45 gregate	97.38 ne AAS	93.9 HTO T-9	96	
Unit Weight: (lbs./cr	u. ft.) fon of un # 1 Abso	CA by LA T B Drption	use of t	he LA LA 2 rse Agg 1/2"	94.41 Machin Result 1.45 gregate	97.38 ne AAS	93.9 HTO T-9	96	
Unit Weight: (lbs./cr	u. ft.) con of un # 1 l Abso Size: y: D):	CA by LA T B Orption #4	use of to ype of Coar 3/8" 2.678	he LA LA 2 rse Agg 1/2" 2.641	94.41 Machin Result 1.45 gregate 3/4" 2.678	97.38 ne AAS	93.9 HTO T-9	96	

Amount of Material	Finer than # 20	0 Sieve in Aggregate	AASHTO T-11
Allivulli vi Material	. Γ'111C1 LHAH π 20	o nieve ili Aggiegale	AA3DIUI-II

1 1/2" - 1"

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

1" - 3/4"

3/4" - 1/2"

0.10

1/2" - 3/8"

0.39

Reviewed By (Print / Sign) Date

3/8" - # 4

#4-#8

Sieve Size:

% Loss:

2" - 1 1/2"

endor:	BROX	K IND	DRACI	UT		I	Lab No:	201500)24		
ource:	DRAC	CUT QU	ARRY			I	Location:	DRAC	UT, MA		
Sieve Analy	ysis of (Coarse A	Aggrega	ite			AASH	ITO T-27			
% Passir	ng	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8		
CA Size:			1 1/2	1	3/4	1/2	3/6	π -	#6		
CA Size:1	/2	100.0	100.0	100.0	100.0	86.7	29.5	6.7	4.8		
CA Size:3	3/8	100.0	100.0	100.0	100.0	99.9	94.6	31.0	2.5		
CA Size:											
J nit Weig l	nt and V	Void in	Aggreg	ate			AASH	ITO T-19			
Nominal A	Aggregat	te Size:	1 1/2'	1	••	3/4''	1/2''	3/8''			
Unit Weig			1				107.79	103.85	\dashv		
Resistance	to Abra	asion of Run#1	LA T	ype	LA	Machin Result	e AASH	ITO T-96			
		Run # 1	LA T	ype	LA	Result	-	TTO T-96			
	avity a	Run # 1	LA T	ype	LA	Result	- AASH				
Specific Gr	ravity a	Run # 1 nd Abso	LA T B orption	ype of Coar	LA 1 cse Agg	Result 3.15 gregate	- AASH	ITO T-85			
Specific Gr Nominal A Bulk Spec Specific G	ravity a Aggregat cific Gra Gravity (S	Run # 1 nd Abso te Size: vity: SSD):	LA T B orption #4	3/8" 2.881 2.903	LA 1 2:se Agg 1/2" 2.901 2.915	Result 3.15 gregate	- AASH	ITO T-85			
Nominal A Bulk Specific G Apparent	avity a Aggregat Cific Gra Gravity (S	Run # 1 nd Abso te Size: vity: SSD):	LA T B orption #4	3/8" 2.881 2.903 2.945	LA 1 rse Agg 1/2" 2.901 2.915 2.943	Result 3.15 gregate	- AASH	ITO T-85			
Specific Gr Nominal A Bulk Spec Specific G	avity a Aggregat Cific Gra Gravity (S	Run # 1 nd Abso te Size: vity: SSD):	LA T B orption #4	3/8" 2.881 2.903	LA 1 2:se Agg 1/2" 2.901 2.915	Result 3.15 gregate	- AASH	ITO T-85			
Nominal A Bulk Specific C Apparent Absorption	Pavity a Aggregat Cific Gra Gravity (S Specific On:	Run # 1 nd Abso te Size: vity: SSD): Gravity:	LA T B orption #4	3/8" 2.881 2.903 2.945 0.763	LA 1. 2.58e Agg 1/2" 2.901 2.915 2.943 0.488	Result 3.15 gregate 3/4"	AASH	ITO T-85			
Nominal A Bulk Specific C Apparent Absorption	Aggregated Sific Gravity (Specific on:	Run # 1 nd Abso te Size: vity: SSD): Gravity:	LA T B orption #4	3/8" 2.881 2.903 2.945 0.763	LA 1. 2.58e Agg 1/2" 2.901 2.915 2.943 0.488	Result 3.15 gregate 3/4"	AASH	TO T-85		#4-#8	
Nominal A Bulk Specific C Apparent Absorptic	Aggregated Sific Gravity (Specific on:	Run # 1 nd Abso te Size: vity: SSD): Gravity:	LA T B orption #4 oy Use o	3/8" 2.881 2.903 2.945 0.763	1/2" 2.901 2.915 2.943 0.488 m Sulfa	Result 3.15 cregate 3/4"	AASH 1" 1 AASH	TO T-85	ı	#4-#8	
Nominal A Bulk Specific G Specific G Apparent Absorptic Soundness Sieve Size % Loss:	Aggregate Gravity (Secondary Control of Aggregate Control of Con	Run # 1 nd Abso te Size: vity: SSD): Gravity: regate b	LA T B orption #4 by Use o	3/8" 2.881 2.903 2.945 0.763 f Sodiu	LA 1 rse Agg 1/2" 2.901 2.915 2.943 0.488 m Sulfa	Result 3.15 regate 3/4" 3/4" - 1 0.15	AASH 1" 1 AASH //2" 1/2" 0	TO T-104	ı	#4-#8	
Bulk Specific G Apparent Absorption Soundness Sieve Size	Aggregate ific Gravity (Secondary Specific on:	Run # 1 nd Abso te Size: vity: SSD): Gravity: regate b	LA T B orption #4 by Use o	3/8" 2.881 2.903 2.945 0.763 f Sodiu	1/2" 2.901 2.915 2.943 0.488 m Sulfa	3/4" - 1 0.15	AASH 1" 1 AASH //2" 1/2" 0	TO T-104	ı	#4-#8	

ndor: AT	TLEBORO) S & G			L	ab No:	20150	0027	<u></u>
ource: AT	TLEBORO) PIT			L	ocation:	ATTI	LEBORO, M	1A
ieve Analysis o	of Coarse	Aggrega	ıte			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	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:									
Init Weight and	d Void in	Aggreg	ate			AASH	TO T-1	9	
Nominal Aggre	egate Size:	1 1/2"	' 1	"	3/4"	1/2''	3/8"	,	
Unit Weight:			 		92.93	91.44	89.04		
Resistance to A	brasion of Run#1	CA by LA T	ype	LA]	Machine Result	e AASH	ITO T-9	6	
pecific Gravity	Run#1	LA T B orption	ype of Coar	LA 1	Result 3.57 regate	AASH	TO T-8		
pecific Gravity	Run#1 y and Absorgate Size:	LA T	ype of Coar	LA 13	Result 3.57 regate 3/4"	AASH			
pecific Gravity Nominal Aggre Bulk Specific G	Run # 1 y and Absorgate Size: Gravity:	LA T B orption	ype of Coai 3/8" 2.664	LA 1 13 rse Agg 1/2'' 2.697	Result 3.57 regate 3/4" 2.723	AASH	TO T-8		
pecific Gravity Nominal Aggre Bulk Specific G Specific Gravit	Run # 1 y and Absorgate Size: Gravity: y (SSD):	LA T B orption #4	ype of Coar 3/8" 2.664 2.696	LA 13 13 rse Agg 1/2" 2.697 2.722	Result 3.57 regate 3/4" 2.723 2.740	AASH	TO T-8		
Nominal Aggre Bulk Specific Gravit Apparent Speci	Run # 1 y and Absorgate Size: Gravity: y (SSD):	LA T B orption #4	3/8" 2.664 2.752	LA 1 13 rse Agg 1/2'' 2.697 2.722 2.766	Result 3.57 regate 3/4" 2.723 2.740 2.769	AASH	TO T-8		
pecific Gravity Nominal Aggre Bulk Specific G Specific Gravit	Run # 1 y and Absorgate Size: Gravity: y (SSD):	LA T B orption #4	ype of Coar 3/8" 2.664 2.696	LA 13 13 rse Agg 1/2" 2.697 2.722	Result 3.57 regate 3/4" 2.723 2.740	AASH	TO T-8		
Nominal Aggre Bulk Specific G Specific Gravit Apparent Speci Absorption: oundness of A	Run # 1 y and Absorbate Size: Gravity: y (SSD): ific Gravity: ggregate b	LA T B Orption # 4 Oy Use o	3/8" 2.664 2.696 2.752 1.193	1/2" 2.697 2.722 2.766 0.927	Result 3.57 regate 3/4" 2.723 2.740 2.769 0.601 ate	AASH	TO T-8	5	
Nominal Aggre Bulk Specific G Specific Gravit Apparent Speci Absorption: oundness of Aggreent	Run # 1 y and Absorgate Size: Gravity: y (SSD): ific Gravity:	LA T B orption #4	3/8" 2.664 2.696 2.752 1.193	LA 1 13 rse Agg 1/2" 2.697 2.722 2.766 0.927	Result 3.57 regate 3/4" 2.723 2.740 2.769 0.601 ate	AASH AASH AASH 2" 1/2"	TO T-10	5	#4-#8
Nominal Aggre Bulk Specific G Specific Gravit Apparent Speci Absorption: oundness of A	Run # 1 y and Absorbate Size: Gravity: y (SSD): ific Gravity: ggregate b	LA T B Orption # 4 Oy Use o	3/8" 2.664 2.696 2.752 1.193	1/2" 2.697 2.722 2.766 0.927	Result 3.57 regate 3/4" 2.723 2.740 2.769 0.601 ate	AASH AASH AASH 2" 1/2"	TO T-8	5	# 4 - # 8
Nominal Aggre Bulk Specific G Specific Gravit Apparent Speci Absorption: oundness of Aggreent	Run # 1 y and Absorber Size: Gravity: y (SSD): iffic Gravity: ggregate b	LA T B Orption #4 by Use o	3/8" 2.664 2.696 2.752 1.193 f Sodiu	1/2" 2.697 2.722 2.766 0.927 m Sulfa	Result 3.57 regate 3/4" 2.723 2.740 2.769 0.601 ate 3/4" - 1/0.06	AASH 1" 1 AASH 2" 1/2" 0	TO T-10 - 3/8"	5)4 3/8'' - # 4	#4-#8
Nominal Aggre Bulk Specific Gravit Apparent Specific Absorption: oundness of Aggre Sieve Size: 2 % Loss:	Run # 1 y and Absorber Size: Gravity: y (SSD): ific Gravity: ggregate b	LA T B Orption #4 by Use o	3/8" 2.664 2.696 2.752 1.193 f Sodiu 1" 1" 200 Sie	1/2" 2.697 2.722 2.766 0.927 m Sulfa - 3/4"	Result 3.57 regate 3/4" 2.723 2.740 2.769 0.601 ate 3/4" - 1/ 0.06	AASH 1" 1 AASH 2" 1/2" 0	TO T-10 - 3/8"	5)4 3/8'' - # 4	#4-#8

endor: <u>Cl</u>	HERENZIA]	Lab No:	20150	0029	
ource: Ol	LD HOPKIN	NTON R	D.		1	Location:	WES'	TERLY, R	[
ieve Analysis	of Coarse A	Aggrega	ite			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	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:									
Init Waiaht	: L:oV b.	A gama =				~			
Init Weight a	na vola IN	Aggreg	ale			AASH	ITO T-1	9	
Nominal Aggı	regate Size:	1 1/2"	' 1	**	3/4"	1/2''	3/8'	<u>'</u>	
Unit Weight:	(lbs./cu. ft.)				91.44	89.96	89.0	4	
Resistance to A	Abrasion of Run#1	CA by LA T	ype	LA	Machin Result 6.68	ne AASH	ITO T-9	6	
Resistance to A	Run # 1	LA T	ype	LA 3	Result 6.68	-	ITO T-9		
	Run # 1	LA T	ype	LA 3	Result 6.68	- AASH			
pecific Gravi	Run # 1 ty and Absoregate Size:	LA T	ype of Coar	LA 3 cse Agg	Result 6.68 gregate	- AASH	ITO T-8		
pecific Gravi Nominal Aggi Bulk Specific Specific Grav	Run # 1 ty and Absoregate Size: Gravity: ity (SSD):	LA T	ype of Coar	LA 3 rse Agg 1/2"	Result 6.68 gregate 3/4"	- AASH	ITO T-8		
pecific Gravi Nominal Aggrands Specific Grave Apparent Specific Gravent	Run # 1 ty and Absoregate Size: Gravity: ity (SSD):	LA T	3/8" 2.583 2.615 2.669	LA 3 rse Agg 1/2" 2.598 2.620 2.655	Result 6.68 gregate 3/4" 2.607 2.627 2.661	- AASH	ITO T-8		
pecific Gravi Nominal Aggi Bulk Specific Specific Grav	Run # 1 ty and Absoregate Size: Gravity: ity (SSD):	LA T	ype of Coar 3/8" 2.583 2.615	LA 3 rse Agg 1/2" 2.598 2.620	Result 6.68 regate 3/4" 2.607 2.627	- AASH	ITO T-8		
pecific Gravi Nominal Aggrands Specific Grave Apparent Specific Gravent	Run # 1 ty and Absoregate Size: Gravity: ity (SSD): ceific Gravity:	LA T	3/8" 2.583 2.615 2.669 1.262	LA 3 rse Agg 1/2" 2.598 2.620 2.655 0.833	Result 6.68 regate 3/4" 2.607 2.627 2.661 0.778	AASH	ITO T-8	5	
Nominal Aggi Bulk Specific Specific Grav Apparent Spe Absorption:	Run # 1 ty and Absoregate Size: Gravity: ity (SSD): ceific Gravity:	LA T	3/8" 2.583 2.615 2.669 1.262	LA 3 rse Agg 1/2" 2.598 2.620 2.655 0.833	Result 6.68 regate 3/4" 2.607 2.627 2.661 0.778	AASH	1/2"	5	#4-#8
Nominal Aggrands Bulk Specific Grave Apparent Specific Absorption:	Run # 1 ty and Absoregate Size: Gravity: ity (SSD): ceific Gravity:	LA T B orption # 4	3/8" 2.583 2.615 2.669 1.262	1/2" 2.598 2.620 2.655 0.833	Result 6.68 regate 3/4" 2.607 2.627 2.661 0.778 ate	AASH 1" 1 AASH 1/2" 1/2"	TO T-10	04	#4-#8
Nominal Aggrands Specific Grave Apparent Specific Grave Absorption: oundness of Assieve Size: % Loss:	Run # 1 ty and Absoregate Size: Gravity: ity (SSD): reific Gravity: Aggregate b	LA T B orption # 4 y Use o	3/8" 2.583 2.615 2.669 1.262 f Sodiu	LA 3 rse Agg 1/2" 2.598 2.620 2.655 0.833 m Sulfa - 3/4"	Result 6.68 regate 3/4" 2.607 2.627 2.661 0.778 ate 3/4" - 1	AASH AASH AASH 1/2" 1/2" 1	TO T-10 - 3/8" .44	5 04 3/8" - # 4	# 4 - # 8
Nominal Aggrands Bulk Specific Grave Apparent Specific Absorption: oundness of Assieve Size:	Run # 1 ty and Absortegate Size: Gravity: ity (SSD): cific Gravity: Aggregate b	LA T B orption # 4 y Use o	3/8" 2.583 2.615 2.669 1.262 f Sodiu	LA 3 rse Agg 1/2" 2.598 2.620 2.655 0.833 m Sulfa - 3/4"	Result 6.68 regate 3/4" 2.607 2.627 2.661 0.778 ate 3/4" - 1	AASH AASH AASH 1/2" 1/2" 1	TO T-10 - 3/8" .44	5 04 3/8" - # 4	# 4 - # 8

Vendor:	SOUTH COUNTY S and G	Lab No:	20150031
Source:	CHARLESTOWN PIT	Location:	CHARLESTOWN, RI

Sieve	Analysis of	Coarse Aggregate	
DICYC	Allary SIS UL	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	В	49.01

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						

Vendor:	<u>J.P. C</u>	CARRAR	RA .			I	Lab No:	201500)52	<u>—</u>	
Source:	MIDI	OLEBUR	RY, VT			I	ocation:	MIDDI	LEBURY,	VT	
Sieve Anal	lysis of	Coarse A	Aggrega	ite			AASH	TO T-27			
% Passi	ng	2"	1 1/2!!	1"	3/4''	1/2"	3/8''	#4	#8		
CA Size:	3/4	100.0	1 1/2" 100.0	100.0	98.3	50.5	23.0	3.6	2.3		
CA Size:		100.0	100.0	100.0	70.5	30.3	23.0	3.0	2.3		
CA Size:		100.0	100.0	100.0	100.0	99.7	99.3	12.9	4.3		
CA Size:											
Unit Weig	ht and	Void in	Aggreg	ate			AASH	TO T-19			
Nominal	Aggrega	te Size:	1 1/2"	' 1'	•	3/4"	1/2"	3/8"			
Unit We		es./cu. ft.) rasion of Run # 1	CA by LA T	ype	he LA I	97.38 Machin Result	e AASH	98.91			
Unit We	to Abr	rasion of	LA T	ype	he LA I	Machin Result		<u> </u>			
Unit We	to Abr	Run # 1	LA T	ype	he LA I	Machin Result	AASH	TO T-96			
Unit Wei	to Abr	Run # 1 and Abso	LA T	ype of Coar	he LA I LA I 22 se Aggi	Machin Result 2.96 regate	AASH	TTO T-96			
Unit Wei Resistance Specific G Nominal Bulk Specific	ravity a Aggrega cific Gra Gravity (Run # 1 and Absorte Size: avity: (SSD):	LA T	ype of Coar 	he LA I LA I 22 se Aggi	Machin Result 2.96 regate 3/4" 2.549 2.579	AASH	TTO T-96			
Nominal Bulk Specific G Apparen	ravity a Aggrega ecific Gra Gravity (Run # 1 and Absorte Size: avity:	LA T	3/8" 2.532 2.577 2.650	he LA I LA I 22 se Aggi	Machin Result 2.96 regate 3/4" 2.549 2.579 2.628	AASH	TTO T-96			
Unit Wei	ravity a Aggrega cific Gra Gravity (Run # 1 and Absorte Size: avity: (SSD):	LA T	3/8" 2.532 2.577	he LA I LA I 22 se Aggi	Machin Result 2.96 regate 3/4" 2.549 2.579	AASH	TTO T-96			
Nominal Bulk Specific Apparen Absorpti	ravity a Aggrega ccific Gra Gravity (t Specific on:	Run # 1 and Absorte Size: avity: (SSD): c Gravity:	LA T B Orption # 4 Oy Use o	3/8" 2.532 2.577 2.650 1.761	LA I 22 se Agg	Machin Result 2.96 regate 3/4" 2.549 2.579 2.628 1.187	AASH	TTO T-96			
Nominal Bulk Specific of Apparen Absorpti	ravity a Aggrega cific Gra Gravity (t Specific on:	Run # 1 and Absorte Size: avity: (SSD): c Gravity:	LA T	3/8" 2.532 2.577 2.650 1.761	LA I 22 se Agg	Machin Result 2.96 regate 3/4" 2.549 2.579 2.628 1.187	AASH AASH AASH /2" 1/2"	TO T-96 TO T-85 TO T-104 - 3/8"		#4-#8	
Nominal Bulk Specific Apparen Absorpti	ravity a Aggrega cific Gra Gravity (t Specific on:	Run # 1 and Absorte Size: avity: (SSD): c Gravity:	LA T B Orption # 4 Oy Use o	3/8" 2.532 2.577 2.650 1.761	the LA I LA I 22 se Aggi	Machin Result 2.96 regate 3/4" 2.549 2.579 2.628 1.187	AASH AASH AASH /2" 1/2"	TO T-96	ı	#4-#8	
Nominal Bulk Specific G Apparen Absorpti Soundness Sieve Siz % Loss:	Aggrega ecific Gra Gravity (t Specific on: of Agg	Run # 1 and Absorte Size: avity: (SSD): c Gravity: gregate b	LA T B Orption # 4 by Use o	3/8" 2.532 2.577 2.650 1.761 f Sodium 1" 1" 1"	LA I 22 se Agg 1/2" m Sulfa	Machin Result 2.96 regate 3/4" 2.549 2.579 2.628 1.187 ate 3/4" - 1 0.10	AASH AASH /2" 1/2" 0	TO T-96 TO T-85 TO T-104 - 3/8"	3/8'' - # 4	#4-#8	
Nominal Bulk Specific Apparen Absorpti	Aggrega cific Gra Gravity (t Specific on: of Agg	Run # 1 and Absorte Size: nvity: (SSD): c Gravity: gregate b	LA T B Orption # 4 by Use o	3/8" 2.532 2.577 2.650 1.761 f Sodium 1" 1" 1"	the LA I LA I 22 se Aggr 1/2" m Sulfa - 3/4" ve in A	Machin Result 2.96 regate 3/4" 2.549 2.579 2.628 1.187 ate 3/4" - 1 0.10 ggregate	AASH AASH /2" 1/2" 0	TO T-96 TO T-85 TO T-104 - 3/8"	3/8'' - # 4	#4-#8	<u> </u>

endor:	CHERENZIA	-WHITI	E ROCK	ζ	L	ab No:	20150	0058	
ource:	WHITE ROC	K QUA	RRY		L	ocation:	WES	ΓERLY, RI	
·	is of Coarse	Aggrega	nte			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	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:									
nit Weight	and Void in	Aggreg	ate			AASH	ITO T-1	9	
Nominal Ag	gregate Size:	1 1/2'	' 1	"	3/4"	1/2''	3/8"	,	
	t: (lbs./cu. ft.)	11/2	+		92.93	92.93	93.9		
Resistance to	Abrasion of	CA by LA T	ype	LA]	Machine Result	e AASH	ITO T-9	6	
pecific Gra	Run # 1	LA T B orption	ype of Coar	LA 1	Result	AASH	ITO T-8		
pecific Gra	Run # 1 vity and Absorgregate Size:	LA T	ype of Coar	LA 1 4: crse Agg	Result 1.11 regate 3/4"	AASH			
pecific Gra Nominal Ag Bulk Specif	Run # 1 vity and Absergeregate Size: ic Gravity:	LA T B orption	ype of Coar 3/8" 2.550	LA 1 41 rse Agg 1/2" 2.578	Result 1.11 regate 3/4" 2.594	AASH	ITO T-8		
pecific Gra Nominal Ag Bulk Specif Specific Gra	Run # 1 vity and Absorption gregate Size: ic Gravity: avity (SSD):	LA T B orption #4	3/8" 2.550 2.594	1/2" 2.578 2.605	Result 1.11 regate 3/4" 2.594 2.617	AASH	ITO T-8		
Nominal Ag Bulk Specif Specific Gra Apparent S	Run # 1 vity and Absorber Size: ic Gravity: avity (SSD): pecific Gravity:	LA T B orption #4	3/8" 2.550 2.594 2.669	1/2" 2.578 2.605 2.649	Result 1.11 regate 3/4" 2.594 2.617 2.654	AASH	ITO T-8		
pecific Gra Nominal Ag Bulk Specif Specific Gra	Run # 1 vity and Absorber Size: ic Gravity: avity (SSD): pecific Gravity:	LA T B orption #4	3/8" 2.550 2.594	1/2" 2.578 2.605	Result 1.11 regate 3/4" 2.594 2.617	AASH	ITO T-8		
Nominal Ag Bulk Specif Specific Gra Apparent S Absorption	Run # 1 vity and Absorber Size: ic Gravity: avity (SSD): pecific Gravity:	LA T B orption #4 oy Use o	3/8" 2.550 2.594 2.669 1.754	1/2" 2.578 2.605 2.649 1.034 m Sulfa	Result 1.11 regate 3/4" 2.594 2.617 2.654 0.868	AASH	TO T-8	5	#4 #9
Nominal Ag Bulk Specif Specific Gra Apparent S Absorption oundness of	Run # 1 vity and Absorgeregate Size: ic Gravity: avity (SSD): pecific Gravity:	LA T B orption #4	3/8" 2.550 2.594 2.669 1.754	1/2" 2.578 2.605 2.649 1.034	Result 1.11 regate 3/4" 2.594 2.617 2.654 0.868 ate	AASH AASH AASH 2" 1/2"	TO T-10	5	# 4 - # 8
Nominal Ag Bulk Specif Specific Gra Apparent S Absorption	Run # 1 vity and Absorber Size: ic Gravity: avity (SSD): pecific Gravity:	LA T B orption #4 oy Use o	3/8" 2.550 2.594 2.669 1.754	1/2" 2.578 2.605 2.649 1.034 m Sulfa	Result 1.11 regate 3/4" 2.594 2.617 2.654 0.868	AASH AASH AASH 2" 1/2"	TO T-8	5	#4-#8
Nominal Ag Bulk Specific Gra Apparent S Absorption oundness of Sieve Size: % Loss:	Run # 1 vity and Absorber Size: ic Gravity: avity (SSD): pecific Gravity:	LA T B orption #4 by Use o	3/8" 2.550 2.594 2.669 1.754 f Sodiu	1/2" 2.578 2.605 2.649 1.034 m Sulfa	Result 1.11 regate 3/4" 2.594 2.617 2.654 0.868 ate 3/4" - 1/ 0.18	AASH AASH 2" 1/2" 2	TO T-10 - 3/8"	5 04 3/8" - # 4	#4-#8
Nominal Ag Bulk Specific Gra Apparent S Absorption oundness of Sieve Size: % Loss:	Run # 1 vity and Absorber gregate Size: ic Gravity: avity (SSD): pecific Gravity: f Aggregate b 2'' - 1 1/2'' Iaterial Fine	LA T B orption #4 by Use o	3/8" 2.550 2.594 2.669 1.754 f Sodiu: 1" 1" 200 Sie	1/2" 2.578 2.605 2.649 1.034 m Sulfa	Result 1.11 regate 3/4" 2.594 2.617 2.654 0.868 ate 3/4" - 1/ 0.18	AASH AASH 2" 1/2" 2	TO T-10 - 3/8"	5 04 3/8" - # 4	#4-#8

endor:	CARI	OI CORI	Ρ.			I	Lab No:	20150	066	
ource:	Hopki	ins Hill	Road			I	Location:	Coven	ntry, RI	
Siovo Anol	vois of (Coorgo	A garage				A A GT	TTO T 4		
Sieve Anal % Passi	-	Cuarse	Aggrega	ite			AASH	ITO T-27	<i>I</i>	
/0 1 assi	ug	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:										
J nit Weig l	ht and \	Void in	Aggreg	ate			AASH	TO T-19	9	
Nominal	Aggrega	te Size:	1 1/2"	1	••	3/4''	1/2''	3/8"	\neg	
Unit Wei			<u> </u>	+		94.41	94.41	98.91		
		•	LA T	ype	LA	Machin Result 8.60	e AASH	TO T-90	6	
Resistance	to Abr	asion of	LA T	ype	LA 3	Result 8.60	-	TO T-90		
Resistance	to Abra	asion of Run # 1 nd Abso	LA T	ype	LA 3	Result 8.60	- AASH			
Resistance	to Abraravity a	asion of Run # 1 nd Absete Size:	LA T	ype of Coar	LA 3 rse Agg	Result 8.60 gregate	- AASH	ITO T-83		
Resistance Specific Grant Specific G	to Abraravity a Aggregatific Gra Gravity (Run # 1 nd Abso te Size: vity: SSD):	LA T	ype of Coar	LA 3 rse Agg 1/2"	Result 8.60 gregate 3/4"	- AASH	ITO T-83		
Resistance Specific Grant Specific	to Abraravity a Aggrega cific Gra Gravity (Run # 1 nd Abso te Size: vity: SSD):	LA T	3/8" 2.603 2.624 2.658	LA 3 rse Agg 1/2'' 2.567 2.597 2.648	Result 8.60 gregate 3/4'' 2.594 2.614 2.647	- AASH	ITO T-83		
Resistance Specific Grant Specific G	to Abraravity a Aggrega cific Gra Gravity (Run # 1 nd Abso te Size: vity: SSD):	LA T	3/8" 2.603 2.624	LA 3 rse Agg 1/2" 2.567 2.597	Result 8.60 gregate 3/4" 2.594 2.614	- AASH	ITO T-83		
Resistance Specific Grant Specific	to Abraravity a Aggregatific Gra Gravity (at Specific on:	Run # 1 and Absorte Size: vity: SSD):	LA T	3/8" 2.603 2.624 2.658 0.793	LA 3 rse Agg 1/2" 2.567 2.597 2.648 1.199	Result 8.60 gregate 3/4'' 2.594 2.614 2.647 0.774	AASH	ITO T-83	5	
Resistance Specific Grant Specific	to Abraravity a Aggregatific Gra Gravity (it Specific on:	Run # 1 and Absorte Size: vity: SSD):	LA T	3/8" 2.603 2.624 2.658 0.793	LA 3 rse Agg 1/2" 2.567 2.597 2.648 1.199	Result 8.60 gregate 3/4'' 2.594 2.614 2.647 0.774	AASH	1/2"	5	#4-#8
Resistance Nominal Bulk Spe Specific C Apparent Absorption	to Abraravity a Aggregatific Gra Gravity (it Specific on:	Run # 1 Ind Absorte Size: vity: SSD): e Gravity:	LA T B orption #4 oy Use o	3/8" 2.603 2.624 2.658 0.793	1/2" 2.567 2.597 2.648 1.199 m Sulf	Result 8.60 regate 3/4'' 2.594 2.614 2.647 0.774 ate	AASH 1" 1 AASH	1/2" TO T-10	5	#4-#8
Resistance Specific Grant Specific Grant Specific Grant Absorption Soundness Sieve Size % Loss:	to Abraravity a Aggrega cific Gra Gravity () t Specific on: of Agg	asion of Run # 1 and Abso te Size: vity: SSD): Gravity: regate b	LA T B orption #4 by Use o	3/8" 2.603 2.624 2.658 0.793 f Sodiu	LA 3 rse Agg 1/2" 2.567 2.597 2.648 1.199 m Sulf	Result 8.60 gregate 3/4" 2.594 2.614 2.647 0.774 ate 3/4" - 1 0.07	AASH 1" 1 AASH //2" 1/2" 0	TO T-10 - 3/8" .15	3/8" - # 4	#4-#8
Resistance Specific Grant Specific Grant Absorption Soundness Sieve Size	to Abraravity a Aggregatific Grace Gravity (standard) to Abraravity a Aggregatific Grace Gravity (standard) to Aggregatific Gravity (standard) of Aggregatific Gravity (s	asion of Run # 1 and Absorte Size: vity: SSD): c Gravity: regate b	LA T B orption #4 by Use o	3/8" 2.603 2.624 2.658 0.793 f Sodiu	1/2" 2.567 2.597 2.648 1.199 m Sulf	Result 8.60 gregate 3/4" 2.594 2.614 2.647 0.774 ate 3/4" - 1 0.07	AASH 1" 1 AASH //2" 1/2" 0	TO T-10 - 3/8" .15	3/8" - # 4	#4-#8

ndor: <u>CUN</u>	/IBERLA	ND QU	ARRY .		L	ab No:	20150		
urce: <u>MAl</u>	NVILLE I	HILL RO	DAD		L	ocation:	CUM	BERLANI	O, RI
	. ~								
ieve Analysis of % Passing	Coarse A	Aggrega	ite			AASH	ITO T-2	7	
, v i ussing	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:									
nit Weight and	Void in	Aggreg	ate			AASH	ITO T-19	9	
Nominal Aggreg	ate Size:	1 1/2"	1	"	3/4"	1/2"	3/8"		
Unit Weight: (I	bs./cu. ft.)			9	98.87	97.38	93.98	3	
esistance to Ab	rasion of	CA by			Machine Result	e AASH	ITO T-90	6	
esistance to Ab	rasion of Run # 1	LA T	ype	LA I		e AASH	ITO T-90	6	
esistance to Ab	Run # 1	LA T	ype	LA I	Result		ITO T-96		
	Run # 1	LA T	ype	LA I	Result	AASE			
pecific Gravity	Run # 1 and Abso	LA T B orption	ype of Coar	LA I	Result .78 regate	AASE	ITO T-8:		
pecific Gravity	Run # 1 and Absorate Size: ravity:	LA T B orption	ype of Coar	22 rse Agg	Result .78 regate	AASE	ITO T-8:		
pecific Gravity Nominal Aggreg Bulk Specific Gr	Run # 1 and Absorate Size: eavity: (SSD):	LA T B orption #4	3/8" 2.790	22 rse Aggr 1/2" 2.782	Result .78 regate 3/4" 2.796	AASE	ITO T-8:		
pecific Gravity Nominal Aggreg Bulk Specific Gravity	Run # 1 and Absorate Size: eavity: (SSD):	LA T B orption #4	3/8" 2.790 2.815	LA I 222 rse Aggi 1/2" 2.782 2.806	Result .78 regate 3/4" 2.796 2.811	AASE	ITO T-8:		
Pecific Gravity Nominal Aggreg Bulk Specific Gravity Apparent Specific Absorption:	Run # 1 and Absorate Size: ravity: (SSD): ic Gravity: gregate b	LA T B orption # 4 by Use o	3/8" 2.790 2.815 2.864 0.927	1/2" 2.782 2.806 2.850 0.857	3/4" 2.796 2.811 2.838 0.528 te	AASH	1/2" TO T-10	5	#4.#8
Nominal Aggreg Bulk Specific Gravity Apparent Specific Absorption: oundness of Ag Sieve Size: 2'	Run # 1 and Absorate Size: eavity: (SSD): ic Gravity:	LA T B orption #4	3/8" 2.790 2.815 2.864 0.927	LA I 22 rse Agg 1/2" 2.782 2.806 2.850 0.857	Result .78 regate 3/4" 2.796 2.811 2.838 0.528 te	AASH AASH AASH /2" 1/2"	TO T-10	5	#4-#8
Pecific Gravity Nominal Aggreg Bulk Specific Gravity Apparent Specific Absorption:	Run # 1 and Absorate Size: ravity: (SSD): ic Gravity: gregate b	LA T B orption # 4 by Use o	3/8" 2.790 2.815 2.864 0.927	1/2" 2.782 2.806 2.850 0.857	3/4" 2.796 2.811 2.838 0.528 te	AASH AASH AASH /2" 1/2"	1/2" TO T-10	5	#4-#8
Nominal Aggreg Bulk Specific Gravity Apparent Specific Absorption: oundness of Ag Sieve Size: 2'	Run # 1 and Absorate Size: ravity: (SSD): ic Gravity: gregate b	LA T B orption #4 by Use o	3/8" 2.790 2.815 2.864 0.927 f Sodiu	1/2" 2.782 2.806 2.850 0.857 m Sulfa	Result .78 regate 3/4" 2.796 2.811 2.838 0.528 te 3/4" - 1/0.12	AASH AASH /2" 1/2" 0	TO T-10 - 3/8" .21	3/8'' - # 4	#4-#8
Nominal Aggreg Bulk Specific Gravity Apparent Specific Absorption: oundness of Ag Sieve Size: 2' % Loss:	Run # 1 and Absorate Size: ravity: (SSD): ic Gravity: gregate b	LA T B orption #4 by Use o	3/8" 2.790 2.815 2.864 0.927 f Sodiu	1/2" 2.782 2.806 2.850 0.857 m Sulfa	Result .78 regate 3/4" 2.796 2.811 2.838 0.528 te 3/4" - 1/ 0.12 ggregat	AASH AASH /2" 1/2" 0	TO T-10 - 3/8" .21	3/8'' - # 4	#4-#8

endor:	BROOKLYN	S & G				ab No:	20150		
ource:	WAREGAN I	RD PIT			L	ocation:	BROC	KLYN CC	ONN
ieve Analys	sis of Coarse A	\ggregs	nte			AASH	ITO T-27	7	
% Passing		-888				AASH	110 1-2	,	
	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	3 100.0	100.0	100.0	100.0	100.0	96.6	27.1	6.4	
CA Size:									
nit Weight	and Void in	Aggreg	ate			AASH	TO T-19)	
Nominal A	ggregate Size:	1 1/2'	' 1	"	3/4"	1/2"	3/8"		
Unit Weigh	t: (lbs./cu. ft.)				100.36	97.38	98.91		
	Run # 1	LA T	урс		Result				
	Kiin # I	b		1					
	Kuii // I				1.99				
pecific Gra	vity and Abso		of Coar			AASH	ITO T-85	5	
			of Coar				ITO T-85	5	
	vity and Abso	orption		se Agg	gregate			5	
Nominal Ag	vity and Abso	orption	3/8"	rse Agg	gregate			5	
Nominal Ag Bulk Specific Gr	vity and Absongeregate Size:	# 4	3/8'' 2.593	1/2" 2.602	3/4" 2.542			5	
Nominal Ag Bulk Specific Gr	vity and Absorgeregate Size: Fic Gravity: Favity (SSD): Specific Gravity:	# 4	3/8" 2.593 2.634	1/2" 2.602 2.639	3/4" 2.542 2.585			5	
Nominal Ag Bulk Specif Specific Gr Apparent S Absorption	vity and Absorption ggregate Size: fic Gravity: avity (SSD): specific Gravity:	# 4	3/8" 2.593 2.634 2.704 1.591	1/2" 2.602 2.639 2.704 1.454	3/4" 2.542 2.585 2.658 1.718	1" 1	1/2"		
Nominal Ag Bulk Specif Specific Gr Apparent S Absorption	vity and Absorgeregate Size: Fic Gravity: Favity (SSD): Specific Gravity:	# 4	3/8" 2.593 2.634 2.704 1.591	1/2" 2.602 2.639 2.704 1.454	3/4" 2.542 2.585 2.658 1.718	1" 1			
Nominal Ag Bulk Specific Gr Apparent S Absorption	vity and Absorption ggregate Size: fic Gravity: avity (SSD): specific Gravity:	# 4	3/8" 2.593 2.634 2.704 1.591	1/2" 2.602 2.639 2.704 1.454	3/4" 2.542 2.585 2.658 1.718	1" 1 AASH	1/2"		# 4 - # 8
Nominal Ag Bulk Specific Gr Apparent S Absorption	vity and Absorgeregate Size: fic Gravity: avity (SSD): specific Gravity: : f Aggregate b	# 4 y Use o	3/8" 2.593 2.634 2.704 1.591	1/2" 2.602 2.639 2.704 1.454 m Sulfa	3/4" 2.542 2.585 2.658 1.718	1" 1 AASH	1/2" TO T-10	4	# 4 - # 8
Nominal Ag Bulk Specific Gr Apparent S Absorption oundness o Sieve Size: % Loss:	vity and Absorption of Aggregate Size: Fic Gravity: avity (SSD): Epecific Gravity: f Aggregate b	y Use o	3/8" 2.593 2.634 2.704 1.591 f Sodiu:	1/2" 2.602 2.639 2.704 1.454 m Sulfa	3/4" 2.542 2.585 2.658 1.718 ate 3/4" - 1 0.10	1" 1 AASH /2" 1/2" 0	TO T-10 - 3/8"	4 3/8'' - # 4	#4-#8
Nominal Ag Bulk Specific Gr Apparent S Absorption oundness o Sieve Size: % Loss:	vity and Absorgeregate Size: fic Gravity: avity (SSD): specific Gravity: : f Aggregate b	y Use o	3/8" 2.593 2.634 2.704 1.591 f Sodiu:	1/2" 2.602 2.639 2.704 1.454 m Sulfa	3/4" 2.542 2.585 2.658 1.718 ate 3/4" - 1 0.10	1" 1 AASH /2" 1/2" 0	TO T-10 - 3/8"	4 3/8'' - # 4	#4-#8
Nominal Ag Bulk Specific Gr Apparent S Absorption Soundness o Sieve Size: % Loss:	vity and Absorgered Size: fic Gravity: avity (SSD): Specific Gravity: f Aggregate b 2'' - 1 1/2'' Material Finer	y Use o	3/8" 2.593 2.634 2.704 1.591 f Sodium 1" 1" 200 Sie	1/2" 2.602 2.639 2.704 1.454 m Sulfa	3/4" 2.542 2.585 2.658 1.718 ate 3/4" - 1 0.10 Aggregat	1" 1 AASH /2" 1/2" 0	TO T-10 - 3/8"	4 3/8'' - # 4	# 4 - # 8

Reviewed By (Print / Sign) Date
REV. 5/1/15

% Passing # 200 sieve

endor:	G. LOI	PES				I	Lab No:	20150	079		
Source:	RAYN	HAM,	MA	MA Location: RAYNHAM, MA						1	
	-								,		
		Y	A ~~~~~	4.0							
Sieve Anal	-	oarse 1	Aggrega	ne			AASH	ITO T-27	,		
% Passi	ng ┌	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:											
U nit Weig l	ht and V	oid in	Aggreg	ate			AASH	ITO T-19)		
Nominal	Aggregate	e Size:	1 1/2"	' 1	"	3/4"	1/2"	3/8"			
	ght: (lbs.			+	_	94.41	94.41	93.98	\dashv		
Resistance		sion of Run # 1	CA by LA T	ype	LA	Machin Result 6.93	e AASH	ITO T-96	•		
		Run # 1	LA T	ype	LA 2	Result	-	TO T-96			
Specific G		Run # 1	LA T	ype	LA 2	Result	- AASH				
Specific Grant Grant Specific Grant Specific Grant Specific Grant Grant Grant Specific Grant	ravity ar Aggregato	Run # 1 nd Abse	LA T B orption	ype of Coar	LA 2 rse Agg 1/2" 2.595	Result 6.93 gregate	- AASH	ITO T-85			
Specific Good Nominal Bulk Specific Control	ravity ar Aggregate cific Grav Gravity (S	Run # 1 nd Abso e Size: rity: SSD):	LA T B orption #4	3/8" 2.615 2.648	LA 2 rse Agg 1/2" 2.595 2.641	Result 6.93 gregate 3/4" 2.645 2.671	- AASH	ITO T-85			
Nominal Bulk Spe Specific (Apparen	ravity ar Aggregate cific Grav Gravity (S	Run # 1 nd Abso e Size: rity: SSD):	LA T B orption #4	3/8" 2.615 2.648 2.704	LA 2 rse Agg 1/2'' 2.595 2.641 2.719	Result 6.93 gregate 3/4'' 2.645 2.671 2.716	- AASH	ITO T-85			
Specific Good Nominal Bulk Specific Control	ravity ar Aggregate cific Grav Gravity (S	Run # 1 nd Abso e Size: rity: SSD):	LA T B orption #4	3/8" 2.615 2.648	LA 2 rse Agg 1/2" 2.595 2.641	Result 6.93 gregate 3/4" 2.645 2.671	- AASH	ITO T-85			
Nominal Bulk Spe Specific (Apparen Absorptic	Aggregate crific Grav Gravity (St Specific on:	Run # 1 nd Abso e Size: vity: SSD): Gravity:	LA T B Orption # 4 Oy Use o	3/8" 2.615 2.648 2.704 1.251	LA 2 rse Agg 1/2" 2.595 2.641 2.719 1.754	Result 6.93 gregate 3/4'' 2.645 2.671 2.716 0.990 ate	AASH	TO T-10	;		
Bulk Spe Specific (Apparen Absorption Soundness	Aggregate crific Grav Gravity (St Specific on:	Run # 1 ad Abso e Size: rity: ESD): Gravity:	LA T B orption #4	3/8" 2.615 2.648 2.704 1.251	LA 2 rse Agg 1/2" 2.595 2.641 2.719 1.754	Result 6.93 gregate 3/4" 2.645 2.671 2.716 0.990 ate 3/4" - 1	AASH 1" 1 AASH	TO T-104	;	# 4 - # 8	
Nominal Bulk Spe Specific (Apparen Absorptic	Aggregate crific Grav Gravity (St Specific on:	Run # 1 nd Abso e Size: vity: SSD): Gravity:	LA T B Orption # 4 Oy Use o	3/8" 2.615 2.648 2.704 1.251	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Result 6.93 gregate 3/4'' 2.645 2.671 2.716 0.990 ate	AASH 1" 1 AASH	TO T-10	4	#4-#8	
Nominal Bulk Spe Specific (Apparen Absorption Soundness	Aggregate crific Gravity (S t Specific on:	Run # 1 nd Abso e Size: rity: SSD): Gravity: regate b	LA T B Orption #4 by Use o	3/8" 2.615 2.648 2.704 1.251 f Sodiu	LA 2 rse Agg 1/2" 2.595 2.641 2.719 1.754 m Sulf - 3/4"	Result 6.93 gregate 3/4" 2.645 2.671 2.716 0.990 ate 3/4" - 1 0.24	AASH 1" 1 AASH //2" 1/2" 0	TO T-104	4 3/8" - # 4	#4-#8	
Nominal Bulk Spe Specific C Apparen Absorptic Soundness Sieve Size % Loss:	Aggregate crific Gravity (S t Specific on:	Run # 1 nd Abso e Size: rity: SSD): Gravity: regate b	LA T B Orption #4 by Use o	3/8" 2.615 2.648 2.704 1.251 f Sodiu	LA 2 rse Agg 1/2'' 2.595 2.641 2.719 1.754 m Sulf - 3/4''	Result 6.93 gregate 3/4" 2.645 2.671 2.716 0.990 ate 3/4" - 1 0.24	AASH 1" 1 AASH //2" 1/2" 0	TO T-104	4 3/8" - # 4	#4-#8	