

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
FINE AGGREGATE ANALYSIS RESULTS - 2013**

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**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
FINE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
CUMBERLAND QUARRY

VENDOR NUMBER :
198

SOURCE:
MANVILLE HILL ROAD

LOCATION:
CUMBERLAND, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	3.20
	# 4	99.4		
	# 8	74.6		
	# 16	46.5		
	# 30	29.5		
	# 50	19.2		
	# 100	10.7		
	# 200	5.9		

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

112.8 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. : **Apparent**
2.704 **S.G.:** 2.773

Bulk (SSD) : **Absorption:**
2.729 0.93

**Plastic Fines by Sand
Equivalence AASHTO T-176**

92.00

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

**Amount of Material Finer than # 200
Sieve in Aggregate**

AASHTO T-11 5.5 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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VENDOR:
J.H. LYNCH

VENDOR NUMBER :
103

SOURCE:
FIRST STREET QUARRY

LOCATION:
CUMBERLAND, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	3.06
	# 4	98.8		
	# 8	77.5		
	# 16	48.9		
	# 30	32.0		
	# 50	22.2		
	# 100	14.5		
	# 200	9.3		

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

119.6 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent S.G.:
2.780	2.815
Bulk (SSD) :	Absorption:
2.793	0.44

**Plastic Fines by Sand
Equivalence AASHTO T-176**

78.50

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

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

8.9 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
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VENDOR:
PJ KEATING - CRANSTON

VENDOR NUMBER :
110

SOURCE:
PHENIX AVE.

LOCATION:
CRANSTON, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	3.07
	# 4	98.7		
	# 8	77.4		
	# 16	51.5		
	# 30	33.8		
	# 50	21.4		
	# 100	10.1		
	# 200	4.6		

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

119.3 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent S.G.:
2.820	2.874
Bulk (SSD) :	Absorption:
2.839	0.66

**Plastic Fines by Sand
Equivalence AASHTO T-176**

87.50

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

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

4.4 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
FINE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
DRY BRIDGE SAND and STONE

VENDOR NUMBER :
113

SOURCE:
SLOCUM PIT

LOCATION:
N. KINGSTOWN, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.78
	# 4	99.6		
	# 8	88.1		
	# 16	64.5		
	# 30	40.6		
	# 50	21.6		
	# 100	7.5		
	# 200	2.2		

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

110.6 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent S.G.:
2.605	2.664
Bulk (SSD) :	Absorption:
2.627	0.85

**Plastic Fines by Sand
Equivalence AASHTO T-176**

91.00

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

**Amount of Material Finer than # 200
Sieve in Aggregate**

AASHTO T-11 **2.2 %**

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
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VENDOR:
MATERIALS SAND and STONE

VENDOR NUMBER :
114

SOURCE:
MOUNTAINDALE QUARRY

LOCATION:
SMITHFIELD, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.86
	# 4	100.0		
	# 8	79.8		
	# 16	57.4		
	# 30	40.4		
	# 50	25.7		
	# 100	10.2		
	# 200	3.1		

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

111.7 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent S.G.:
2.619	2.662
Bulk (SSD) :	Absorption:
2.635	0.62

**Plastic Fines by Sand
Equivalence AASHTO T-176**

87.00

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

**Amount of Material Finer than # 200
Sieve in Aggregate**

AASHTO T-11 3.0 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
FINE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
CHERENZIA

VENDOR NUMBER :
123

SOURCE:
OLD HOPKINTON RD. QUARRY

LOCATION:
WESTERLY, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.85
	# 4	100.0		
	# 8	85.8		
	# 16	58.7		
	# 30	38.9		
	# 50	23.0		
	# 100	9.0		
	# 200	2.9		

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

103.7 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent
2.588	S.G.: 2.651
Bulk (SSD) :	Absorption:
2.612	0.91

**Plastic Fines by Sand
Equivalence AASHTO T-176**

82.00

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

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

3.6 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
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VENDOR:
RICHMOND SAND and GRAVEL

VENDOR NUMBER :
125

SOURCE:
STILSON ROAD PIT

LOCATION:
RICHMOND, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.73
	# 4	99.4		
	# 8	84.0		
	# 16	62.4		
	# 30	44.4		
	# 50	26.8		
	# 100	9.7		
	# 200	2.6		

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

105.1 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent S.G.:
2.616	2.664
Bulk (SSD) :	Absorption:
2.634	0.68

**Plastic Fines by Sand
Equivalence AASHTO T-176**

80.50

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

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

3.2 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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VENDOR:
PJ KEATING - ACUSHNET

VENDOR NUMBER :
135

SOURCE:
ACUSHNET QUARRY

LOCATION:
ACUSHNET, MA

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	3.42
	# 4	99.0		
	# 8	70.9		
	# 16	42.7		
	# 30	25.3		
	# 50	14.4		
	# 100	5.3		
	# 200	2.0		

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

106.8 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent
2.668	S.G.: 2.753
Bulk (SSD) :	Absorption:
2.699	1.15

**Plastic Fines by Sand
Equivalence AASHTO T-176**

91.00

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

**Amount of Material Finer than # 200
Sieve in Aggregate**

AASHTO T-11 1.8 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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VENDOR:
SOUTH COUNTY S & G

VENDOR NUMBER :
148

SOURCE:
CHARLESTOWN PIT

LOCATION:
CHARLESTOWN, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.84
	# 4	100.0		
	# 8	88.2		
	# 16	66.1		
	# 30	38.8		
	# 50	17.2		
	# 100	5.6		
	# 200	1.6		

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

106.9 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent
2.604	S.G.: 2.644
Bulk (SSD) :	Absorption:
2.619	0.58

**Plastic Fines by Sand
Equivalence AASHTO T-176**

93.00

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

Amount of Material Finer than # 200

Sieve in Aggregate AASHTO T-11 1.5 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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VENDOR:
PLOURDE SAND AND GRAVEL

VENDOR NUMBER :
170

SOURCE:
HOOKSET PIT (BLD. 3)

LOCATION:
HOOKSET, NH

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.58
	# 4	98.8		
	# 8	92.0		
	# 16	78.1		
	# 30	48.4		
	# 50	20.2		
	# 100	4.6		
	# 200	0.8		

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

106.1 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent S.G.:
2.639	2.690
Bulk (SSD) :	Absorption:
2.658	0.73

**Plastic Fines by Sand
Equivalence AASHTO T-176**

93.00

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

**Amount of Material Finer than # 200
Sieve in Aggregate**

AASHTO T-11 0.6 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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VENDOR:
PYNE SAND AND GRAVEL

VENDOR NUMBER :
178

SOURCE:
PYNE SAND and GRAVEL

LOCATION:
DOUGLAS, MA

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.73
	# 4	99.5		
	# 8	84.8		
	# 16	66.2		
	# 30	44.6		
	# 50	24.4		
	# 100	7.1		
	# 200	1.6		

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

110.4 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent
2.628	S.G.: 2.682
Bulk (SSD) :	Absorption:
2.648	0.77

**Plastic Fines by Sand
Equivalence AASHTO T-176**

89.50

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

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

1.5 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
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VENDOR:
BROX INDUSTRIES - DRACUT

VENDOR NUMBER :
180

SOURCE:
DRACUT QUARRY

LOCATION:
DRACUT, MA

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.95
	# 4	100.0		
	# 8	81.8		
	# 16	52.6		
	# 30	35.8		
	# 50	23.9		
	# 100	10.8		
	# 200	3.8		

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

116.3 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent S.G.:
2.837	2.913
Bulk (SSD) :	Absorption:
2.863	0.93

**Plastic Fines by Sand
Equivalence AASHTO T-176**

87.00

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

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

4.5 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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VENDOR:
YORK BUILDING PRODUCTS

VENDOR NUMBER :
181

SOURCE:
Belvedere, MD

LOCATION:
Belvedere, MD

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.78
	# 4	98.2		
	# 8	81.5		
	# 16	67.0		
	# 30	49.2		
	# 50	22.2		
	# 100	4.2		
	# 200	0.5		

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

106.5 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent
2.598	S.G.: 2.641
Bulk (SSD) :	Absorption:
2.615	0.62

**Plastic Fines by Sand
Equivalence AASHTO T-176**

90.50

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

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

0.6 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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VENDOR:
WINDHAM MATERIALS

VENDOR NUMBER :
195

SOURCE:
WILLIMANTIC CT.

LOCATION:
WILLIMANTIC CT.

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.75
	# 4	96.3		
	# 8	80.2		
	# 16	65.5		
	# 30	46.8		
	# 50	27.0		
	# 100	9.5		
	# 200	2.0		

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

110.6 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. : **Apparent
S.G.:**

Bulk (SSD) : **Absorption:**

**Plastic Fines by Sand
Equivalence AASHTO T-176**

**Organic Impurities in Sands
for Concrete AASHTO T-21**

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

%

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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VENDOR:
CAPE COD AGGREGATES

VENDOR NUMBER :
196

SOURCE:
BOURNE, MA

LOCATION:
BOURNE, MA

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.87
	# 4	98.9		
	# 8	89.1		
	# 16	72.1		
	# 30	38.7		
	# 50	12.1		
	# 100	1.6		
	# 200	0.2		

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

109.4 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent S.G.:
2.626	2.650
Bulk (SSD) :	Absorption:
2.635	0.34

**Plastic Fines by Sand
Equivalence AASHTO T-176**

100.00

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

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

0.3 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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VENDOR:
BYRNE S & G

VENDOR NUMBER :
197

SOURCE:

LOCATION:
Middleboro, MA

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.72
	# 4	99.5		
	# 8	87.9		
	# 16	70.9		
	# 30	45.8		
	# 50	19.7		
	# 100	4.5		
	# 200	1.1		

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

110.0 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent
2.602	S.G.: 2.675
Bulk (SSD) :	Absorption:
2.630	1.05

**Plastic Fines by Sand
Equivalence AASHTO T-176**

93.00

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

**Amount of Material Finer than # 200
Sieve in Aggregate**

AASHTO T-11 1.2 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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VENDOR:
T.L. EDWARDS

VENDOR NUMBER :
201

SOURCE:
PLYMOUTH, MA

LOCATION:
PLYMOUTH, MA

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.79
	# 4	98.8		
	# 8	90.0		
	# 16	73.9		
	# 30	41.4		
	# 50	14.4		
	# 100	2.4		
	# 200	0.4		

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

110.4 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent S.G.:
2.622	2.654
Bulk (SSD) :	Absorption:
2.634	0.46

**Plastic Fines by Sand
Equivalence AASHTO T-176**

94.00

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

**Amount of Material Finer than # 200
Sieve in Aggregate**

AASHTO T-11 0.7 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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FINE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
CARDI CORP (ASPHALT SAND)

VENDOR NUMBER :
202

SOURCE:
HOPKIN HILL ROAD

LOCATION:
COVENTRY, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	3.18
	# 4	97.7		
	# 8	70.5		
	# 16	47.2		
	# 30	32.9		
	# 50	22.7		
	# 100	11.0		
	# 200	3.3		

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

113.9 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent S.G.:
2.606	2.631
Bulk (SSD) :	Absorption:
2.616	0.36

**Plastic Fines by Sand
Equivalence AASHTO T-176**

89.00

**Organic Impurities in Sands
for Concrete AASHTO T-21**

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

3.1 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
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VENDOR:
CLAYTON SAND

VENDOR NUMBER :
207

SOURCE:
WOODMANSIE NJ

LOCATION:

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.55
	# 4	99.4		
	# 8	95.7		
	# 16	81.0		
	# 30	50.9		
	# 50	16.2		
	# 100	1.5		
	# 200	0.1		

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

104.9 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent S.G.:
2.626	2.640
Bulk (SSD) :	Absorption:
2.631	0.20

**Plastic Fines by Sand
Equivalence AASHTO T-176**

96.00

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Less than Organic Plate # 1

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

0.3 %

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
FINE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
P.A. LANDERS

VENDOR NUMBER :
212

SOURCE:
HANOVER PIT

LOCATION:
HANOVER, MA.

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Percent Passing

-	3/8"	100.0	F.M.:	2.60
	# 4	99.0		
	# 8	92.5		
	# 16	79.1		
	# 30	48.0		
	# 50	18.2		
	# 100	3.5		
	# 200	0.6		

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

107.6 (lbs./cu. ft.)

**Specific Gravity and Absorption
of Fine Aggregate AASHTO T-84**

Bulk S.G. :	Apparent S.G.:
2.614	2.649
Bulk (SSD) :	Absorption:
2.627	0.50

**Plastic Fines by Sand
Equivalence AASHTO T-176**

94.00

**Organic Impurities in Sands
for Concrete AASHTO T-21**

Between Organic Plate # 2 and # 3

**Amount of Material Finer than # 200
Sieve in Aggregate**

AASHTO T-11 0.7 %