

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-102**

Sample Date: 8/13/26

Concrete Grade: **P1M-3500HP**

Contractor: _____

Dates Test Represents: 8/14/2026 through 8/20/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	58-003	Stoneco	1300	7.74	2.69	41.4
IA	58-003	Stoneco	600	3.57	2.69	19.1
2NS	63-114	Highland	1240	7.47	2.66	39.5
Total Wt			3140	18.79		100.0

<----- Verify this number is 100%

Sieve	CA	IA	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	62.0	100.0	100.0	84.3	15.7	15.7
3/4"	33.6	100.0	100.0	72.5	11.8	27.5
1/2"	10.7	88.5	100.0	60.8	11.7	39.2
3/8"	6.2	76.3	100.0	56.6	4.2	43.4
#4	1.6	17.2	98.4	42.8	13.8	57.2
#8	1.1	2.5	83.5	33.9	8.9	66.1
#16	1.0	1.8	65.1	26.5	7.4	73.5
#30	1.0	1.6	44.9	18.5	8.0	81.5
#50	1.0	1.4	19.3	8.3	10.1	91.7
#100	0.8	1.3	4.4	2.3	6.0	97.7
LBW	0.8	1.2	0.6	0.8	1.5	99.2



Superior Materials, LLC

30701 W. 10 Mile Rd.
Suite 500
Farmington Hills, MI 48336

*Maximum % Retained must be above the 3/8" sieve.

*Any two adjacent sieves must equal 10% except max.,

nom. max., #100 and #200 sieves.

*% Retained must be at least 4% for each sieve except max.,

nom. max., #100 and #200 sieves.

*% Retained must be at least 4% for the 3/4" sieve when

a 1.5" max. size (nom. Max. 1.0") aggregate is used.

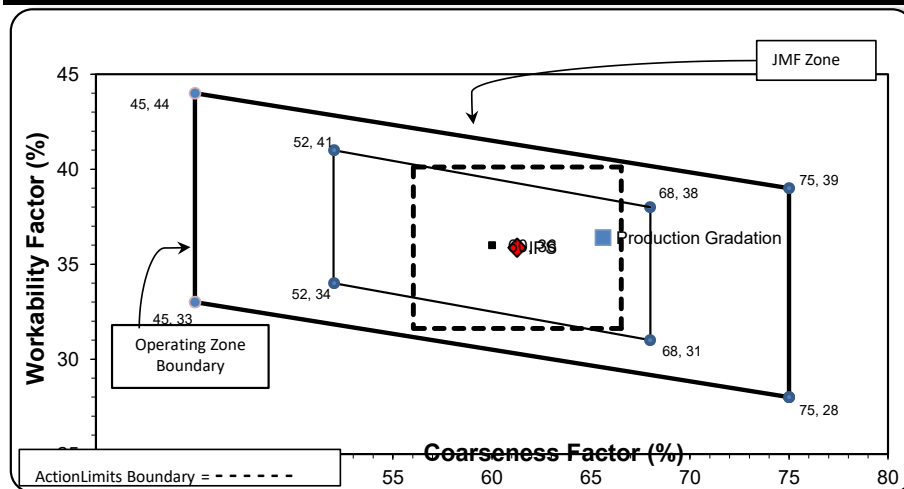
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	66	Workability Factor:	34	36.4
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Coarseness Factor:	61
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Workability Factor:	36
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Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.3	0.7	0.7
3/4"	89.2	10.1	10.8
1/2"	70.7	18.5	29.3
3/8"	60.7	10.0	39.3
#4	44.4	16.3	55.6
#8	35.9	8.5	64.1
#16	27.3	8.6	72.7
#30	19.1	8.2	80.9
#50	7.4	11.7	92.6
#100	1.9	5.6	98.1
LBW	0.7	1.2	99.3

PREPARED BY:
SM, LLC Technical Service

Approved By:
Nancy Donahue

Aggregate Optimization Chart

Production Gradation Report

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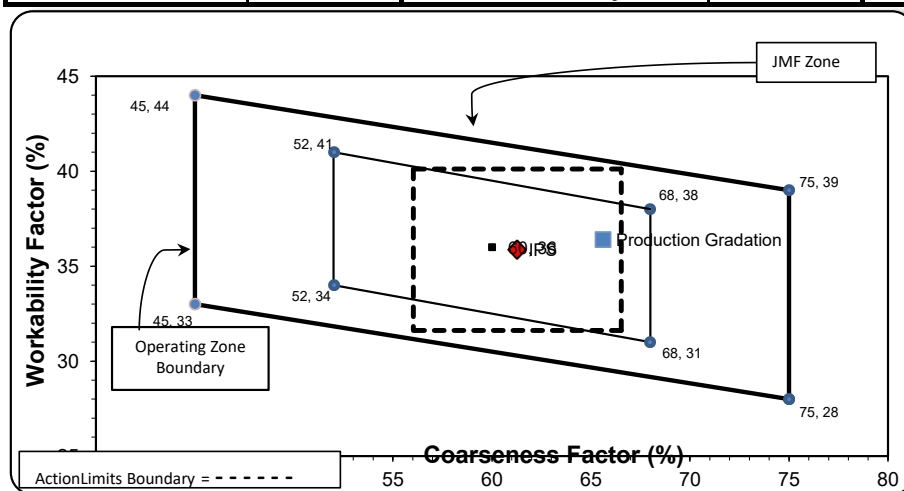
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