

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-102**

Sample Date: 10/21/26

Concrete Grade: **P1M-3500HP**

Dates Test Represents: 10/22/2026 through 10/28/2026

Contractor: _____

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
CA	58-003	StoneCo	1260	7.51	2.69	39.9
IA	58-003	StoneCo	690	4.11	2.69	21.8
2NS	63-114	Highland	1210	7.29	2.66	38.3
Total Wt			3160	18.91		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"	61.9	100.0	100.0	84.8	15.2	15.2
3/4"	38.2	100.0	100.0	75.4	9.5	24.6
1/2"	11.4	87.0	100.0	61.8	13.5	38.2
3/8"	6.0	74.4	100.0	56.9	4.9	43.1
#4	2.1	18.0	97.0	41.9	15.0	58.1
#8	1.6	2.3	82.9	32.9	9.0	67.1
#16	1.3	1.6	63.2	25.1	7.8	74.9
#30	1.2	1.4	43.5	17.4	7.6	82.6
#50	1.2	1.2	18.0	7.6	9.8	92.4
#100	1.2	1.2	4.0	2.3	5.4	97.7
LBW	1.0	1.0	0.9	1.0	1.3	99.0



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.

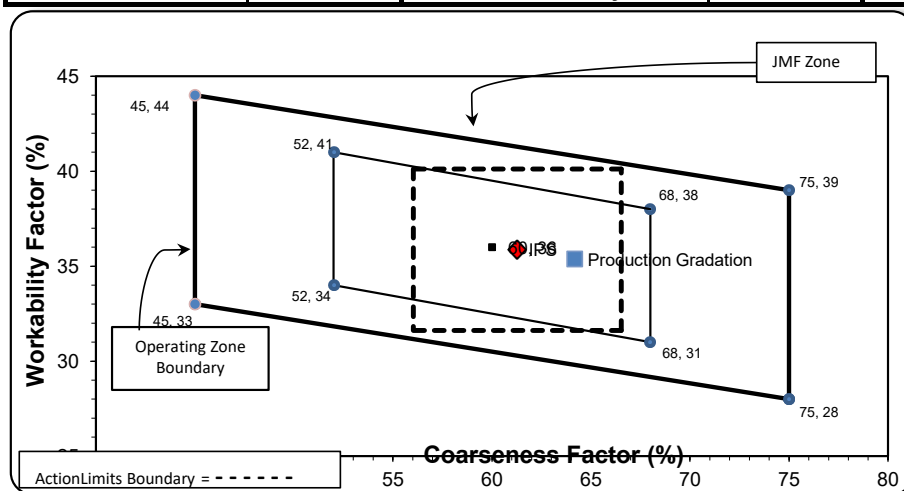
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	64	Workability Factor:	33	35.4
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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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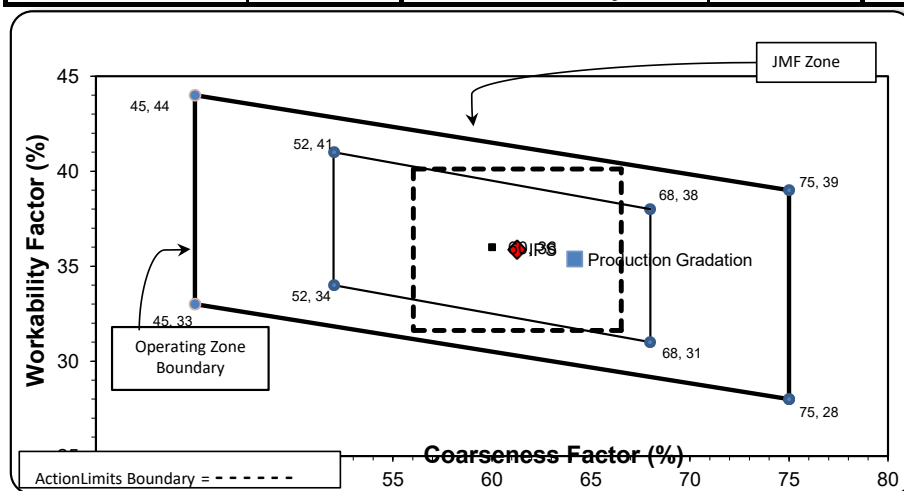
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