

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-102**

Sample Date: 12/5/25

Concrete Grade: **DM, 4500HP**

Contractor: _____

Dates Test Represents: 12/5/2025 through 12/12/2025

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1720	10.25	2.69	57.9
26A	58-003	Stoneco	100	0.60	2.69	3.4
2NS	63-114	Highland	1150	6.88	2.68	38.7
Total Wt			2970	17.72		100.0

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

Sieve	6AA	26A	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"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	93.1	100.0	100.0	96.0	4.0	4.0
1/2"	44.6	99.5	100.0	67.9	28.1	32.1
3/8"	22.6	88.9	100.0	54.8	13.1	45.2
#4	4.7	14.7	97.5	41.0	13.8	59.0
#8	1.5	2.2	82.9	33.0	7.9	67.0
#16	1.1	1.9	67.2	26.7	6.3	73.3
#30	1.0	1.6	48.2	19.3	7.4	80.7
#50	1.0	1.2	19.3	8.1	11.2	91.9
#100	0.9	1.1	2.9	1.7	6.4	98.3
LBW	0.9	0.9	0.3	0.7	1.0	99.3



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.

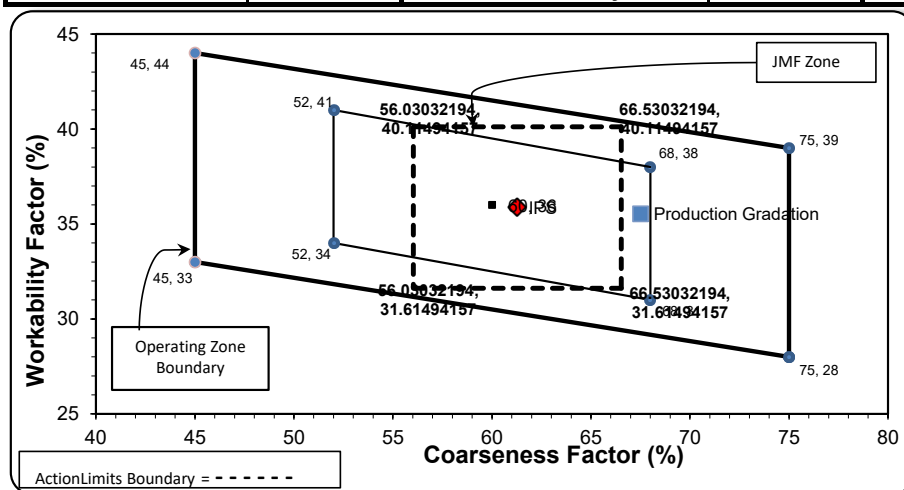
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	68	Workability Factor:	33	35.5
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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
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PREPARED BY:
SM, LLC Technical Service

Approved By:
Nancy Donahue

Aggregate Optimization Chart

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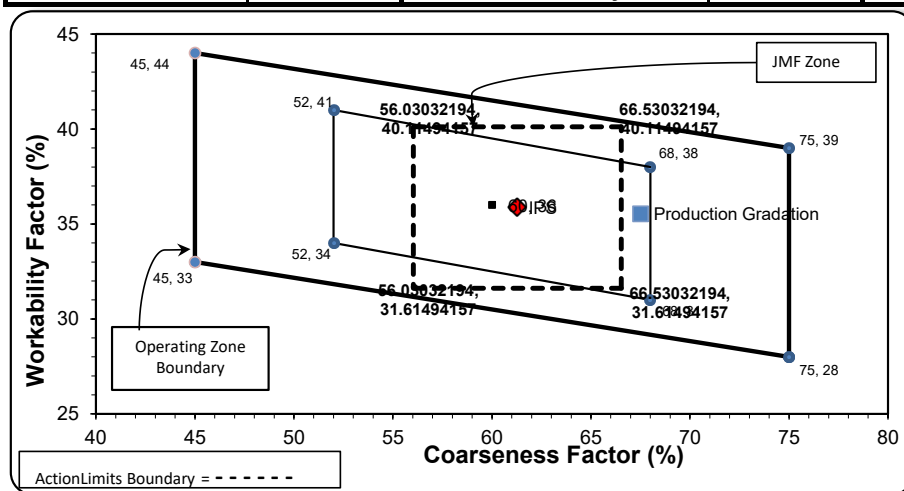
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