

Aggregate Optimization Chart

Production Gradation Report

PLANT #: 35

Sample Date: 7/23/26

Concrete Grade: **S2M, 3500HP**

Contractor: _____

Dates Test Represents: 7/24/2026 through 7/30/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
CA	58-003	Stone Co	1320	7.86	2.69	41.5
IA	58-003	Stone Co	680	4.05	2.69	21.4
2NS	81-019	Pleasant Lake	1180	7.14	2.65	37.1
Total Wt			3180	19.05		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"	62.2	100.0	100.0	84.3	15.7	15.7
3/4"	34.0	100.0	100.0	72.6	11.7	27.4
1/2"	13.9	89.3	100.0	62.0	10.6	38.0
3/8"	8.3	73.8	100.0	56.3	5.6	43.7
#4	3.3	16.1	98.1	41.2	15.1	58.8
#8	2.3	2.5	86.5	33.6	7.6	66.4
#16	2.0	1.8	70.3	27.3	6.3	72.7
#30	1.9	1.6	51.6	20.3	7.0	79.7
#50	1.8	1.4	18.4	7.9	12.4	92.1
#100	1.6	1.4	2.3	1.8	6.1	98.2
LBW	1.4	1.2	0.5	1.0	0.8	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.

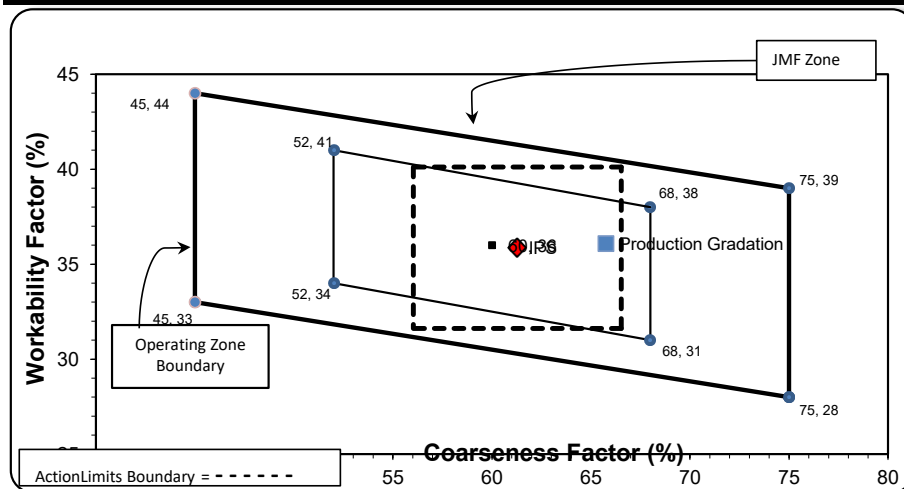
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	66	Workability Factor:	34	36.1
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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

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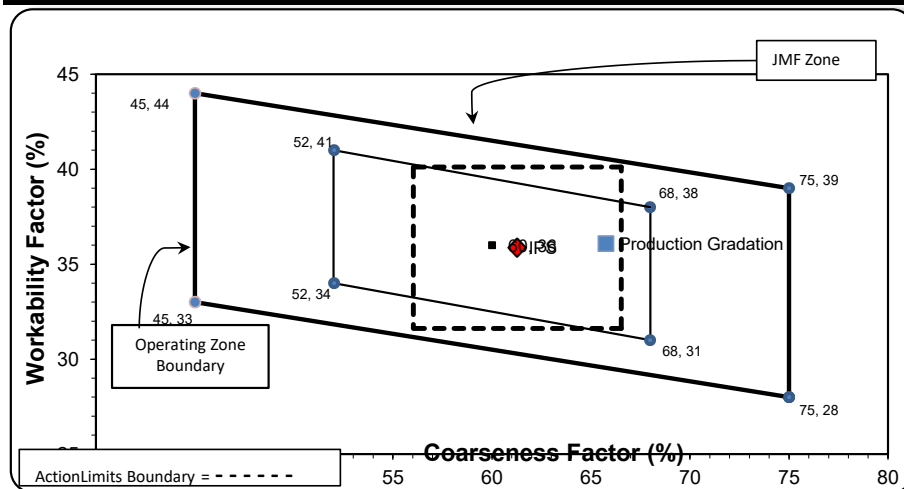
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