

Aggregate Optimization Chart

Production Gradation Report

PLANT #: 35

Sample Date: 7/16/26

Concrete Grade: **S2M, 3500HP**

Contractor: _____

Dates Test Represents: 7/17/2026 through 7/24/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
6AA	58-003	Stone Co	1600	9.53	2.69	51.0
26A	58-003	Stone Co	360	2.14	2.69	11.5
2NS	81-019	Pleasant Lake	1180	7.14	2.65	37.6
Total Wt			3140	18.81		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"	87.4	100.0	100.0	93.6	6.4	6.4
1/2"	47.9	92.3	100.0	72.6	21.0	27.4
3/8"	30.2	77.8	100.0	61.9	10.7	38.1
#4	3.7	18.7	98.5	41.0	20.8	59.0
#8	1.4	2.6	86.1	33.4	7.7	66.6
#16	1.0	1.6	66.8	25.8	7.6	74.2
#30	0.9	1.4	44.9	17.5	8.3	82.5
#50	0.9	1.3	16.5	6.8	10.7	93.2
#100	0.9	1.2	3.5	1.9	4.9	98.1
LBW	0.8	1.1	0.6	0.8	1.2	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.

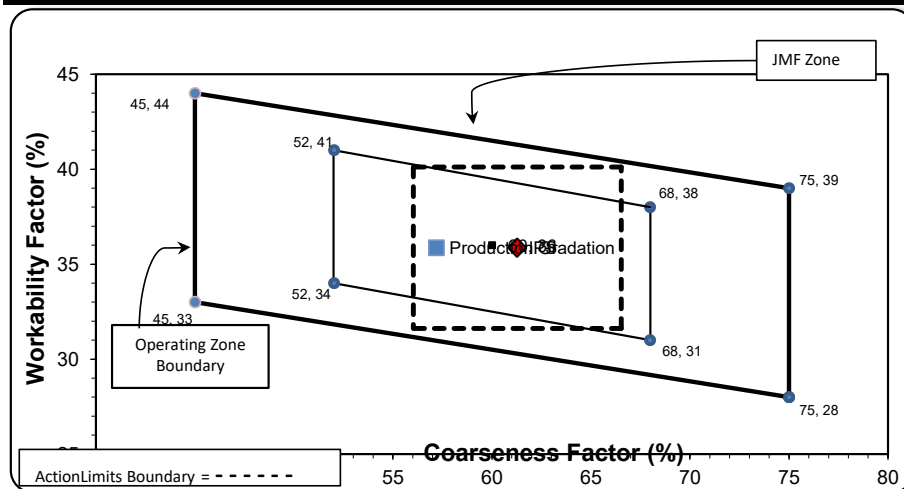
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	57	Workability Factor:	33	35.9
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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