

Aggregate Optimization Chart

PLANT #: **P-102**

Sample Date: 11/28/25

Concrete Grade: **DM, 4500HP**

Contractor: _____

Dates Test Represents: 12/2/2025 through 12/8/2025

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1500	8.94	2.69	50.8
26A	58-003	Stoneco	300	1.79	2.69	10.2
2NS	63-114	Highland	1150	6.95	2.65	39.0
Total Wt			2950	17.68		100.0

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



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

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"	90.0	100.0	100.0	94.9	5.1	5.1
1/2"	48.7	99.9	100.0	73.9	21.0	26.1
3/8"	26.0	84.1	100.0	60.8	13.1	39.2
#4	3.5	14.1	99.0	41.8	18.9	58.2
#8	1.4	4.5	84.8	34.2	7.6	65.8
#16	1.2	3.9	67.1	27.2	7.1	72.8
#30	1.1	2.9	47.5	19.4	7.8	80.6
#50	1.1	2.1	23.4	9.9	9.5	90.1
#100	1.0	1.4	4.3	2.3	7.6	97.7
LBW	0.9	0.8	0.8	0.9	1.5	99.1

*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.

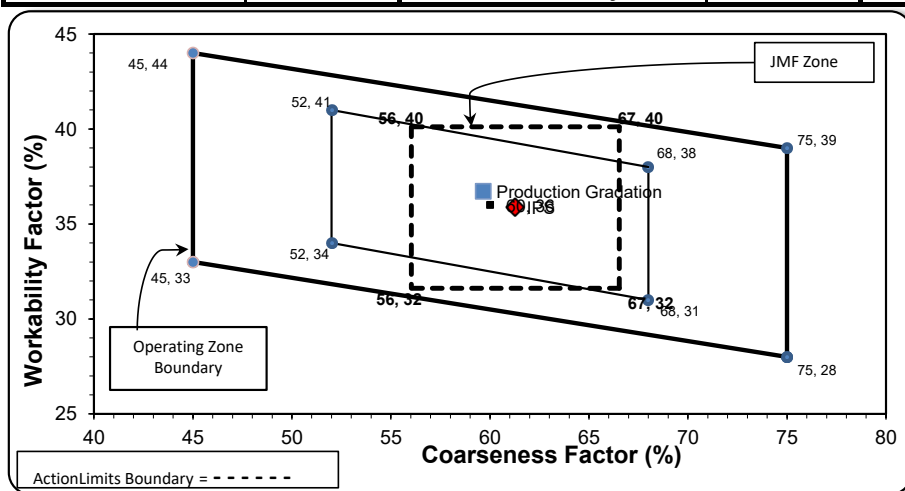
Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	60	Workability Factor:	34	36.7
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Coarseness Factor:	61
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Workability Factor:	36
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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

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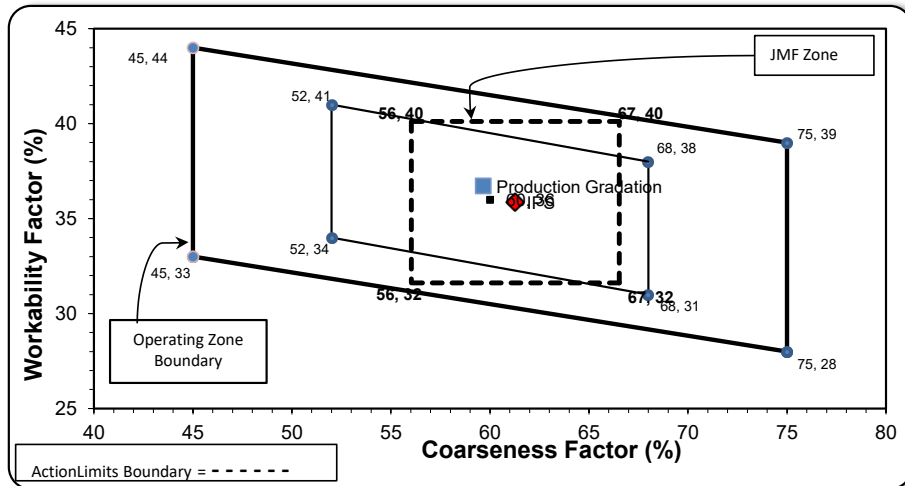
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