

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-2**

Sample Date: 7/23/26

Concrete Grade: **P1M-3500HP**

Contractor: _____

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

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	71-47	Presque Isle	830	5.30	2.51	27.3
IA	71-47	Presque Isle	960	6.13	2.51	31.6
2NS	63-115	Ray Rd	1250	7.50	2.67	41.1
Total Wt			3040	18.93		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"	98.0	100.0	100.0	99.5	0.5	0.5
1"	45.9	100.0	100.0	85.2	14.2	14.8
3/4"	12.1	98.0	100.0	75.4	9.9	24.6
1/2"	3.7	72.3	100.0	65.0	10.4	35.0
3/8"	2.5	46.2	100.0	56.4	8.6	43.6
#4	1.8	7.4	95.9	42.3	14.1	57.7
#8	1.6	3.2	79.7	34.2	8.0	65.8
#16	1.5	2.4	63.6	27.3	6.9	72.7
#30	1.4	2.2	47.5	20.6	6.7	79.4
#50	1.4	2.0	25.5	11.5	9.1	88.5
#100	1.3	1.9	7.1	3.9	7.6	96.1
LBW	1.1	1.6	1.1	1.3	2.6	98.7



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.

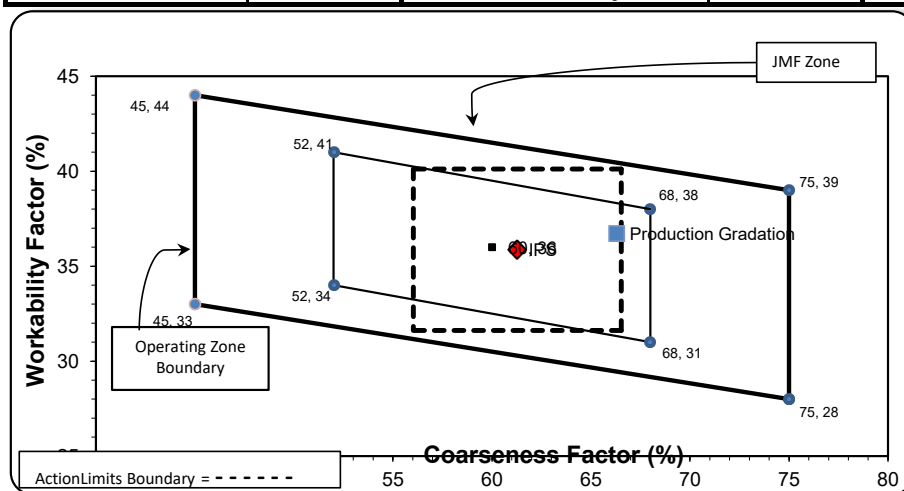
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	66	Workability Factor:	34	36.7
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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

PLANT #: **P-11**

Sample Date: 7/23/26

Concrete Grade: **P1M-3500HP**

Contractor: _____

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

MDOT No.: _____

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LBW	1.1	1.6	1.1	1.3	2.6	98.7



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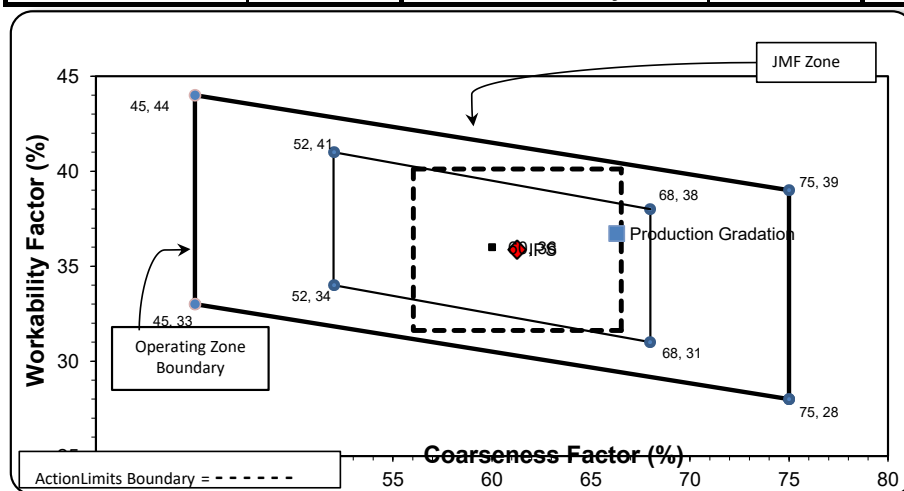
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