

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-2**

Sample Date: 9/2/26

Concrete Grade: **DM-4500HP**

Contractor: _____

Dates Test Represents: 9/3/2026 through 9/9/2026

1" Slump

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1570	9.79	2.57	52.9
26A	71-47	Presque Isle	200	1.25	2.57	6.7
2NS	63-115	Ray Rd	1200	7.20	2.67	40.4
Total Wt			2970	18.24		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"	97.6	100.0	100.0	98.7	1.3	1.3
3/4"	86.2	100.0	100.0	92.7	6.0	7.3
1/2"	47.4	98.8	100.0	72.1	20.6	27.9
3/8"	24.0	85.9	100.0	58.9	13.2	41.1
#4	3.8	22.5	96.6	42.6	16.3	57.4
#8	2.2	6.8	81.7	34.6	7.9	65.4
#16	1.8	3.1	67.0	28.2	6.4	71.8
#30	1.7	2.4	49.8	21.2	7.0	78.8
#50	1.6	2.2	23.9	10.7	10.5	89.3
#100	1.5	2.1	5.3	3.1	7.6	96.9
LBW	1.4	1.8	0.8	1.2	1.9	98.8



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.

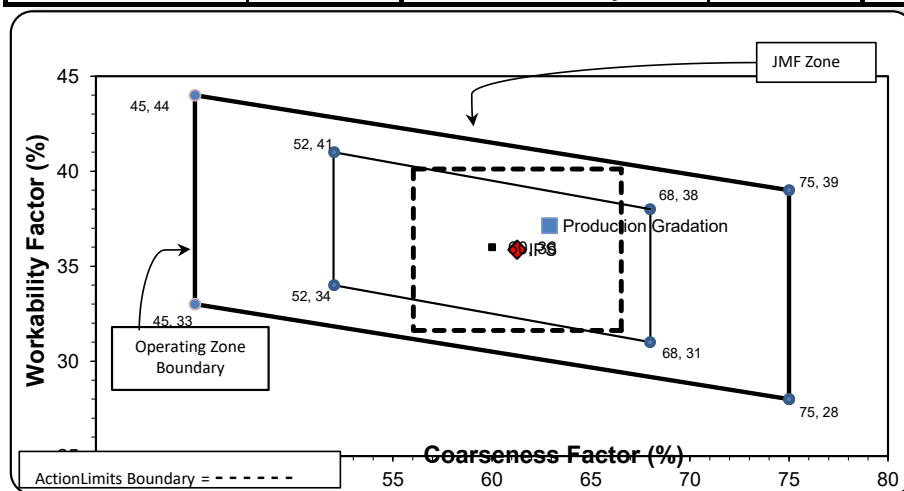
Production Gradation ☒ Batch Plant Gradations ☐ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	63	Workability Factor:	35	37.1
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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



Daily Summary Report

Date Wednesday, September 2, 2026

Sample Id	-1989630846	674979060	-1989630847
Plant	Superior Hoover	Superior Hoover	Superior Hoover
Product	1022 2NS GR	1054 6AA LS PI	1067 26A Mod LS
Specification	2NS GR Spec	6AA LS	26A Mod LS Spec
Sample Type	QA	QA	QA
Time	09:20	09:20	09:20
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		97.6	100.0
3/4" (19mm)		86.2	100.0
1/2" (12.5mm)		47.4	98.8
3/8" (9.5mm)	100.0	24.0	85.9
#4 (4.75mm)	96.6	3.8	22.5
#8 (2.36mm)	81.7	2.2	6.8
#16 (1.18mm)	67.0	1.8	3.1
#30 (.6mm)	49.8	1.7	2.4
#50 (.3mm)	23.9	1.6	2.2
#100 (.15mm)	5.3	1.5	2.1
#200 (75µm)	0.9	1.44	1.9
Pan	0.0	0.00	0.0
FM	2.76		
Wash Loss (#200/75um)	0.8	1.4	1.8
Total Moisture	2.97	3.36	2.69

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-102**

Sample Date: **9/2/26**

Concrete Grade: **DM-4500HP**

Contractor: _____

Dates Test Represents: **9/3/2026** through **9/9/2026**

1" Slump

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
6AA	58-003	StoneCo	1400	8.34	2.69	45.8
1A	58-003	StoneCo	420	2.50	2.69	13.7
2NS	63-114	Highland	1240	7.47	2.66	40.5
Total Wt			3060	18.31		100.0

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



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Sieve	6AA	1A	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"	99.3	100.0	100.0	99.7	0.3	0.3
3/4"	82.2	100.0	100.0	91.9	7.8	8.1
1/2"	41.2	88.7	100.0	71.5	20.3	28.5
3/8"	23.6	68.4	100.0	60.7	10.8	39.3
#4	4.4	12.7	97.8	43.4	17.3	56.6
#8	1.7	2.7	83.5	35.0	8.4	65.0
#16	1.3	1.9	66.2	27.7	7.3	72.3
#30	1.2	1.7	47.3	19.9	7.7	80.1
#50	1.1	1.6	23.0	10.0	9.9	90.0
#100	1.0	1.5	6.3	3.2	6.8	96.8
LBW	0.8	1.3	1.0	0.9	2.3	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.

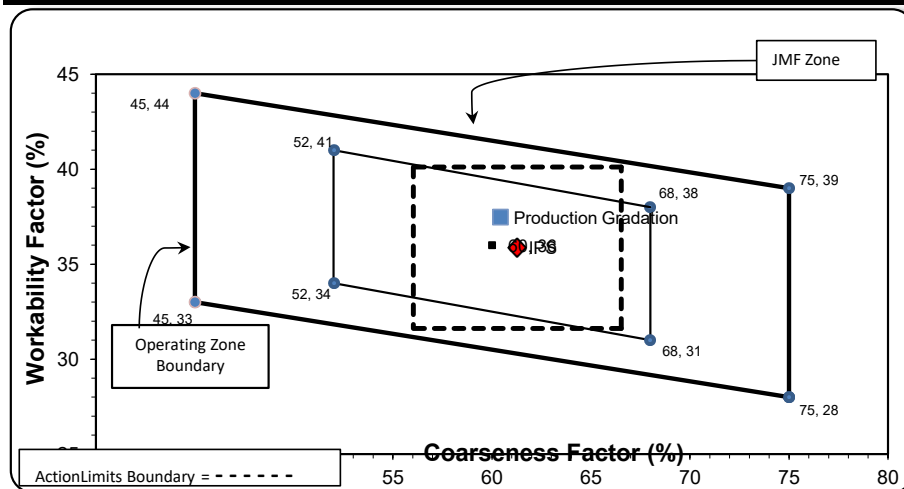
Production Gradation ☒ Batch Plant Gradations ☐ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	60	Workability Factor:	35	37.5
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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
LBW	0.7	1.2	99.3

PREPARED BY:
SM, LLC Technical Service

Approved By:
Nancy Donahue



Daily Summary Report

Date Wednesday, September2, 2026

Sample Id	-1989630832	1124319920	-1989630833
Plant	S102 Superior Novi	S102 Superior Novi	S102 Superior Novi
Product	1022 2NS GR	1051 6AA LS	7920 INTERMED AGG P1M LS
Specification	2NS GR Spec	6AA LS	Intermed Agg P1M LS Target
Sample Type	QA	QA	QA
Time	13:00	13:00	13:00
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		99.3	100.0
3/4" (19mm)		82.2	100.0
1/2" (12.5mm)		41.2	88.7
3/8" (9.5mm)	100.0	23.6	68.4
#4 (4.75mm)	97.8	4.4	12.7
#8 (2.36mm)	83.5	1.7	2.7
#16 (1.18mm)	66.2	1.3	1.9
#30 (.6mm)	47.3	1.2	1.7
#50 (.3mm)	23.0	1.1	1.6
#100 (.15mm)	6.3	1.0	1.5
#200 (75µm)	1.2	0.91	1.4
Pan	0.0	0.00	0.0
FM	2.76		
Wash Loss (#200/75um)	1.0	0.8	1.3
Total Moisture	2.57	4.11	2.35

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-103**

Sample Date: 9/2/26

Concrete Grade: **DM-4500HP**

Contractor: _____

Dates Test Represents: 9/3/2026 through 9/9/2026

1" Slump

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
6AA	58-003	StoneCo	1400	8.34	2.69	45.8
1A	58-003	StoneCo	420	2.50	2.69	13.7
2NS	63-114	Highland	1240	7.47	2.66	40.5
Total Wt			3060	18.31		100.0

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Sieve	6AA	1A	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"	99.3	100.0	100.0	99.7	0.3	0.3
3/4"	82.2	100.0	100.0	91.9	7.8	8.1
1/2"	41.2	88.7	100.0	71.5	20.3	28.5
3/8"	23.6	68.4	100.0	60.7	10.8	39.3
#4	4.4	12.7	97.8	43.4	17.3	56.6
#8	1.7	2.7	83.5	35.0	8.4	65.0
#16	1.3	1.9	66.2	27.7	7.3	72.3
#30	1.2	1.7	47.3	19.9	7.7	80.1
#50	1.1	1.6	23.0	10.0	9.9	90.0
#100	1.0	1.5	6.3	3.2	6.8	96.8
LBW	0.8	1.3	1.0	0.9	2.3	99.1

*Maximum % Retained must be above the 3/8" sieve.

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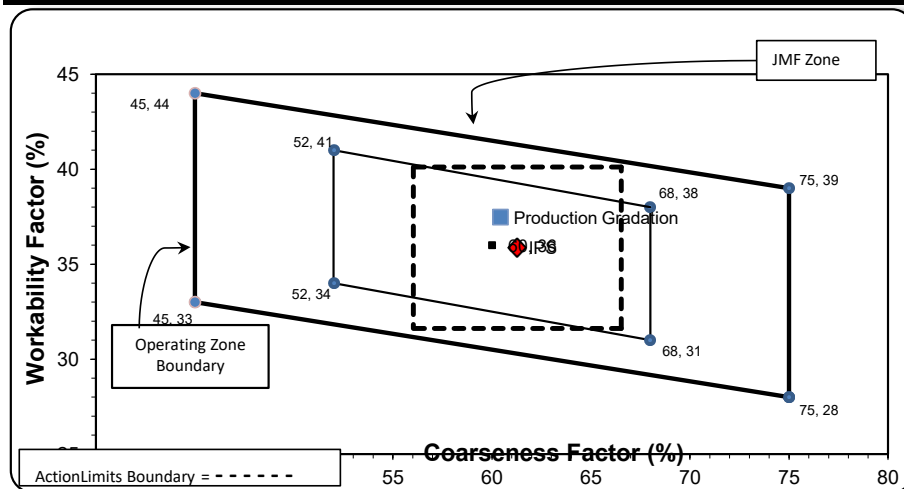
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Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	60	Workability Factor:	35	37.5
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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
LBW	0.7	1.2	99.3

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