

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-103**

Sample Date: 11/10/25

Concrete Grade: **DM, 4500HP**

Contractor: _____

Dates Test Represents: 11/11/2025 through 11/17/2025

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1600	9.53	2.69	54.2
26A	58-003	Stoneco	200	1.19	2.69	6.8
2NS	63-114	Highland	1150	6.95	2.65	39.0
Total Wt			2950	17.68		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"	80.7	100.0	100.0	89.5	10.5	10.5
1/2"	39.9	99.5	100.0	67.4	22.2	32.6
3/8"	21.4	90.2	100.0	56.7	10.7	43.3
#4	2.7	7.6	98.9	40.5	16.2	59.5
#8	2.1	2.3	83.8	34.0	6.6	66.0
#16	1.4	1.4	65.2	26.3	7.7	73.7
#30	1.3	1.2	43.0	17.5	8.7	82.5
#50	1.1	1.2	19.3	8.2	9.3	91.8
#100	0.9	1.1	4.5	2.3	5.9	97.7
LBW	0.7	1.0	0.7	0.7	1.6	99.3

*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.



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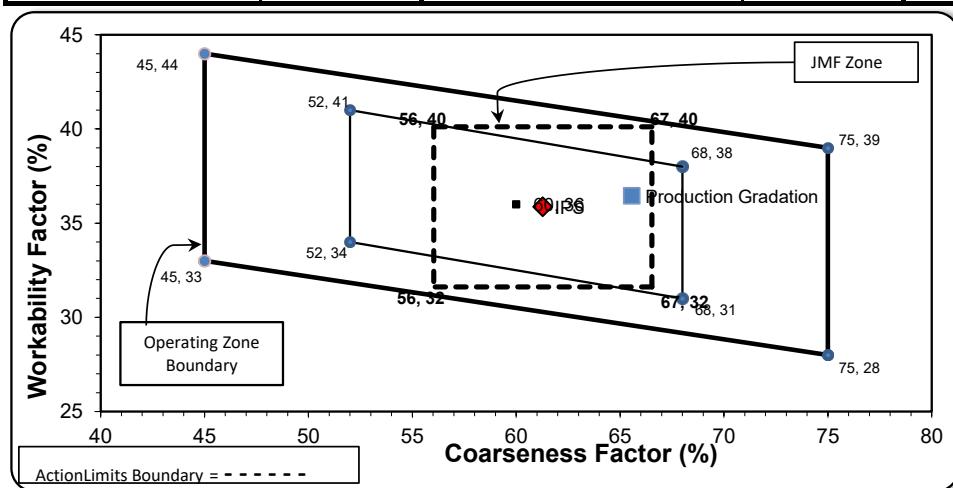
Production Gradation ☒ Batch Plant Gradations ☐ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	66	Workability Factor:	34	36.5
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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:

[Signature]



Daily Summary Report

Date Monday, November 10, 2025

Sample Id	-674950691	-1989643844	-1989620534	-1989643843	-1989643845
Plant	S103 Superior Brighton	S103 Superior Brighton	S103 Superior Brighton	S103 Superior Brighton	S103 Superior Brighton
Product	1022 2NS GR	1051 6AA LS	1067 26A Mod LS	7919 COARSE AGG P1M LS	7920 INTERMED AGG P1M LS
Specification	2NS GR Spec	6AA LS	26A Mod LS Spec	Coarse Agg P1M LS Target	Intermed Agg P1M LS Target
Sample Type	QA	QA	QA	QA	QA
Time	09:00	09:00	09:00	09:00	09:00
2" (50mm)		100.0	100.0	100.0	100.0
1 1/2" (37.5mm)		100.0	100.0	100.0	100.0
1" (25mm)		100.0	100.0	65.2	100.0
3/4" (19mm)		80.7	100.0	38.1	100.0
1/2" (12.5mm)		39.9	99.5	21.7	89.3
3/8" (9.5mm)	100.0	21.4	90.2	12.7	73.2
#4 (4.75mm)	98.9	2.7	7.6	3.1	16.6
#8 (2.36mm)	83.8	2.1	2.3	1.9	3.5
#16 (1.18mm)	65.2	1.4	1.4	1.8	2.4
#30 (.6mm)	43.0	1.3	1.2	1.6	1.7
#50 (.3mm)	19.3	1.1	1.2	1.4	1.4
#100 (.15mm)	4.5	0.9	1.1	1.3	1.3
#200 (75µm)	0.9	0.81	1.1	1.2	1.2
Pan	0.0	0.00	0.0	0.0	0.0
FM	2.85				
Wash Loss (#200/75um)	0.7	0.7	1.0	1.0	1.1
Total Moisture	3.43	2.99	2.69	2.85	2.61

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **p11**

Sample Date: 11/10/25

Concrete Grade: **DM, 4500HP**

Contractor: _____

Dates Test Represents: 11/11/2025 through 11/17/2025

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1455	8.90	2.62	50.1
26A	71-47	Presque Isle	300	1.83	2.62	10.3
2NS	63-115	Ray Rd	1150	6.95	2.65	39.6
Total Wt			2905	17.69		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"	98.9	100.0	100.0	99.4	0.6	0.6
3/4"	84.6	100.0	100.0	92.3	7.2	7.7
1/2"	42.2	97.8	100.0	70.8	21.5	29.2
3/8"	22.6	85.0	100.0	59.7	11.1	40.3
#4	3.7	20.4	97.3	42.5	17.2	57.5
#8	2.1	7.5	80.9	33.9	8.6	66.1
#16	1.7	4.2	63.4	26.4	7.5	73.6
#30	1.6	3.5	45.7	19.3	7.1	80.7
#50	1.6	3.2	22.5	10.0	9.2	90.0
#100	1.5	3.0	5.5	3.2	6.8	96.8
LBW	1.4	2.7	0.9	1.3	1.9	98.7

*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.



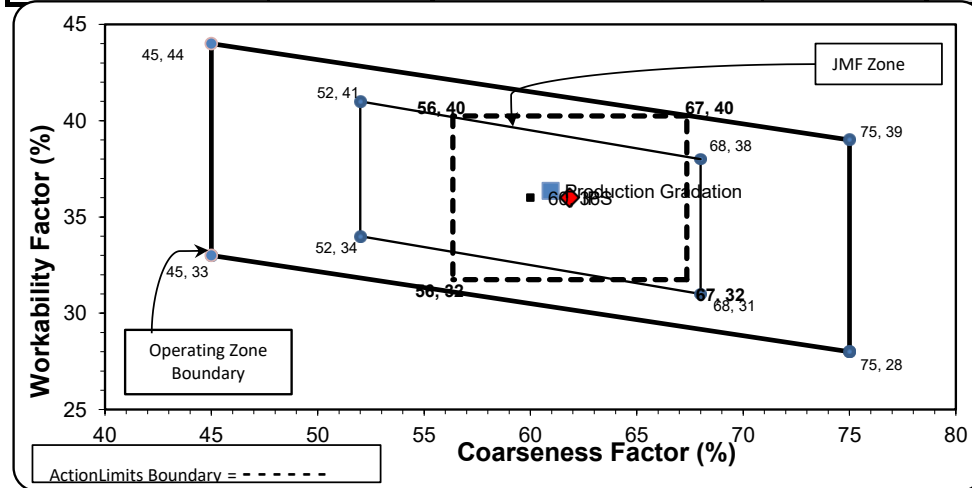
Superior Materials, LLC
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Production Gradation ☒ Batch Plant Gradations ☐ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	61	Workability Factor:	34	36.4
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Coarseness Factor:		62	
Workability Factor:		36	
Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	95.0	5.0	5.0
1/2"	72.3	22.8	27.7
3/8"	60.4	11.8	39.6
#4	42.6	17.8	57.4
#8	36.0	6.6	64.0
#16	29.5	6.5	70.5
#30	20.3	9.2	79.7
#50	9.5	10.8	90.5
#100	3.4	6.1	96.6
LBW	1.3	2.1	98.7



PREPARED BY:
 SM, LLC Technical Service

Approved By:

[Signature]

Daily Summary Report

Date Thursday, November 13, 2025

Sample Id	-674979858	-674984720	-1989643847
Plant	Onsite Jefferson	Onsite Jefferson	Onsite Jefferson
Product	1022 2NS GR	1051 6AA LS	1067 26A Mod LS
Specification	2NS GR Spec		26A Mod LS Spec
Sample Type	QA	QA	QA
Time	14:00	14:00	14:00
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		98.9	100.0
3/4" (19mm)		84.6	100.0
1/2" (12.5mm)		42.2	97.8
3/8" (9.5mm)	100.0	22.6	85.0
#4 (4.75mm)	97.3	3.7	20.4
#8 (2.36mm)	80.9	2.1	7.5
#16 (1.18mm)	63.4	1.7	4.2
#30 (.6mm)	45.7	1.6	3.5
#50 (.3mm)	22.5	1.6	3.2
#100 (.15mm)	5.5	1.5	3.0
#200 (75µm)	1.1	1.45	2.8
Pan	0.0	0.00	0.0
FM	2.85		
-#200 (75um)	1.1		
Wash Loss (#200/75um)	0.9	1.4	2.7
Total Moisture	3.5	2.5	3.0

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-02**

Sample Date: 11/10/25

Concrete Grade: **DM, 4500HP**

Contractor: _____

Dates Test Represents: 11/11/2025 through 11/17/2025

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1455	8.90	2.62	50.1
26A	71-47	Presque Isle	300	1.83	2.62	10.3
2NS	63-115	Ray Rd	1150	6.95	2.65	39.6
Total Wt			2905	17.69		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"	96.7	100.0	100.0	98.3	1.7	1.7
3/4"	78.8	100.0	100.0	89.4	9.0	10.6
1/2"	36.3	97.9	100.0	67.9	21.5	32.1
3/8"	21.2	84.9	100.0	59.0	8.9	41.0
#4	4.5	16.8	97.2	42.5	16.5	57.5
#8	2.7	5.1	82.0	34.3	8.1	65.7
#16	2.3	3.3	64.3	26.9	7.4	73.1
#30	2.1	2.8	46.6	19.8	7.2	80.2
#50	2.0	2.6	22.9	10.3	9.5	89.7
#100	1.9	2.4	6.1	3.6	6.7	96.4
LBW	1.7	2.2	1.1	1.5	2.1	98.5

*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.



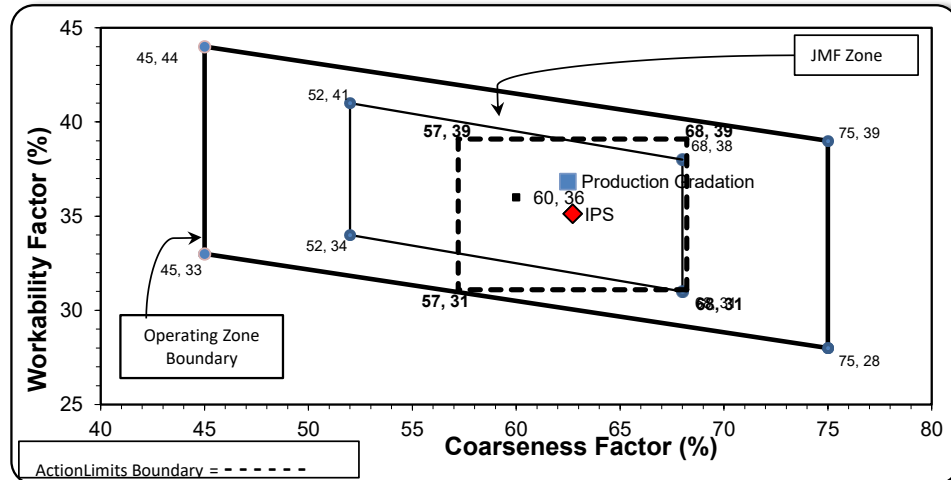
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30701 W. 10 Mile Rd.
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Farmington Hills, MI 48336

Production Gradation ☒ Batch Plant Gradations ☐ Aggregate Supplier Gradations ☐ Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	62	Workability Factor:	34	Adjusted WF	36.8
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Coarseness Factor:	63
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Workability Factor:	35
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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"	100.0	0.0	0.0
3/4"	95.1	4.9	4.9
1/2"	74.6	20.5	25.4
3/8"	59.3	15.3	40.7
#4	42.1	17.2	57.9
#8	35.1	7.1	64.9
#16	29.2	5.9	70.8
#30	21.9	7.3	78.1
#50	9.6	12.4	90.4
#100	2.4	7.2	97.6
LBW	0.9	1.5	99.1

PREPARED BY:
SM, LLC Technical Service

Approved By:

[Signature]



Daily Summary Report

Date Tuesday, November 11, 2025

Sample Id	-667668616	-1989643852	-1989643848	-1989626773	-1989643849
Plant	Superior Hoover	Superior Hoover	Superior Hoover	Superior Hoover	Superior Hoover
Product	1022 2NS GR	1051 6AA LS	1067 26A Mod LS	7919 COARSE AGG P1M LS	7920 INTERMED AGG P1M LS
Specification	2NS GR Spec	6AA LS	26A Mod LS Spec	Coarse Agg P1M LS Target	Intermed Agg P1M LS Target
Sample Type	QA	QA	QA	QA	QA
Time	09:00	09:00	09:00	09:00	09:00
2" (50mm)		100.0	100.0	100.0	100.0
1 1/2" (37.5mm)		100.0	100.0	98.2	100.0
1" (25mm)		96.9	100.0	37.1	100.0
3/4" (19mm)		78.8	100.0	8.8	97.2
1/2" (12.5mm)		36.3	97.9	4.1	63.7
3/8" (9.5mm)	100.0	21.2	84.9	3.1	45.3
#4 (4.75mm)	97.2	4.5	16.8	2.3	7.7
#8 (2.36mm)	82.0	2.7	5.1	2.1	3.7
#16 (1.18mm)	64.3	2.3	3.3	1.9	2.7
#30 (.6mm)	46.6	2.1	2.8	1.8	2.4
#50 (.3mm)	22.9	2.0	2.6	1.7	2.2
#100 (.15mm)	6.1	1.9	2.4	1.5	1.9
#200 (75µm)	1.5	1.75	2.2	1.4	1.7
Pan	0.0	0.00	0.0	0.0	0.0
FM	2.81				
Wash Loss (#200/75um)	1.1	1.7	2.2	1.3	1.6
Total Moisture	3.27	2.35	2.50	1.20	1.10