Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-O2**

Contractor: _____

Sample Date: 3/4/26

Concrete Grade: **S2M, 3500HP**

Dates Test Represents: 3/5/2026 through 3/11/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1500	9.17	2.62	48.7
26A	71-47	Presque Isle	300	1.83	2.62	9.7
2NS	63-115	Ray Rd	1280	7.74	2.65	41.6
		Total Wt	**3080**	**18.75**		100.0

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

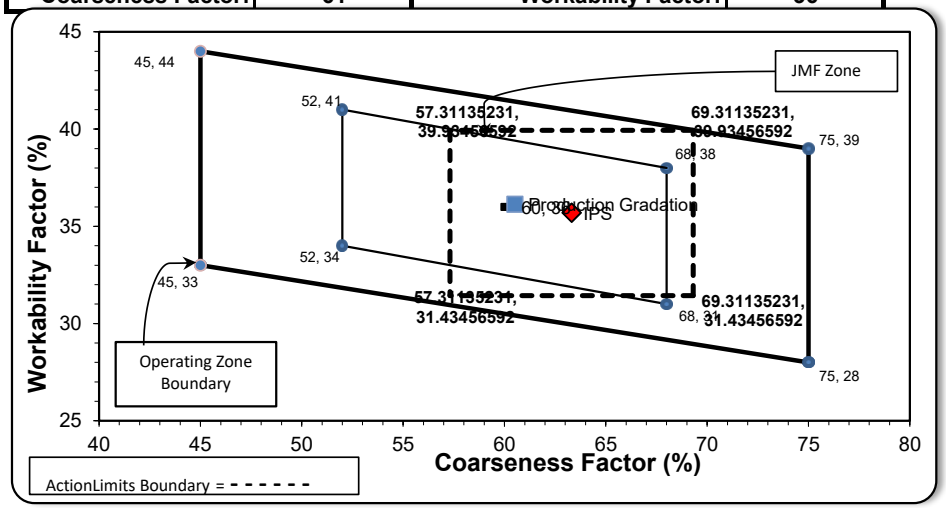
Sieve	6AA	26A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	99.4	100.0	100.0	99.7	0.3	0.3
3/4"	85.4	100.0	100.0	92.9	6.8	7.1
1/2"	45.6	94.7	100.0	73.0	19.9	27.0
3/8"	25.3	76.7	100.0	61.4	11.6	38.6
#4	3.7	14.4	97.8	43.8	17.5	56.2
#8	2.1	4.6	83.4	36.1	7.7	63.9
#16	1.8	2.7	66.5	28.8	7.4	71.2
#30	1.7	2.2	48.3	21.1	7.7	78.9
#50	1.6	2.0	23.1	10.6	10.5	89.4
#100	1.5	1.9	4.4	2.7	7.8	97.3
LBW	1.4	1.7	0.7	1.1	1.6	98.9

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 SupplierGradations

Coarseness Factor:	61	Workability Factor:	36



Intial Production Sample (IPS)

Coarseness Factor:	63
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"	95.6	4.4	4.4
1/2"	73.1	22.6	26.9
3/8"	59.3	13.8	40.7
#4	42.8	16.5	57.2
#8	35.7	7.1	64.3
#16	28.9	6.8	71.1
#30	20.7	8.2	79.3
#50	9.9	10.8	90.1
#100	2.1	7.8	97.9
LBW	0.9	1.2	99.1

PREPARED BY:
SM, LLC Technical Service

Approved By:
Nancy Donahue

Daily Summary Report

Date	Wednesday, March 4, 2026		
Sample Id	-1989642451	-1376933011	-1989642452
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	17:32	17:32	17:32
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		99.4	100.0
3/4" (19mm)		85.4	100.0
1/2" (12.5mm)		45.6	94.7
3/8" (9.5mm)	100.0	25.3	76.7
#4 (4.75mm)	97.8	3.7	14.4
#8 (2.36mm)	83.4	2.1	4.6
#16 (1.18mm)	66.5	1.8	2.7
#30 (.6mm)	48.3	1.7	2.2
#50 (.3mm)	23.1	1.6	2.0
#100 (.15mm)	4.4	1.5	1.9
#200 (75µm)	0.9	1.47	1.7
Pan	0.0	0.00	0.0
FM	2.76		
Wash Loss (#200/75um)	0.7	1.4	1.7
Total Moisture	2.00	2.23	1.90

Daily Summary Report

Comments

Query Selections
Date Created 03/06/2026
Date Range 03/01/2026 - 03/07/2026
Plant Superior Hoover
Sample Type QA

Aggregate Optimization Chart

Production Gradation Report

PLANT #: 11

Contractor:

Sample Date: 3/4/26

Concrete Grade: **S2M 3500HP**

Dates Test Represents: 3/5/2026 through 3/11/2026

MDOT No.:

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1500	8.94	2.69	48.7
26A	71-47	Presque Isle	300	1.79	2.69	9.7
2NS	63-115	Ray Rd	1280	7.74	2.65	41.6
		Total Wt	**3080**	**18.46**		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"	96.6	100.0	100.0	98.3	1.7	1.7
3/4"	75.2	100.0	100.0	87.9	10.4	12.1
1/2"	33.9	95.2	100.0	67.3	20.6	32.7
3/8"	15.8	81.0	100.0	57.1	10.2	42.9
#4	3.5	14.3	97.8	43.7	13.4	56.3
#8	2.7	4.6	81.3	35.6	8.2	64.5
#16	2.6	3.0	65.8	28.9	6.6	71.1
#30	2.4	2.8	48.2	21.5	7.4	78.5
#50	2.3	2.6	23.5	11.1	10.3	88.9
#100	2.1	2.4	4.5	3.1	8.0	96.9
LBW	1.8	2.1	1.1	1.5	1.6	98.5

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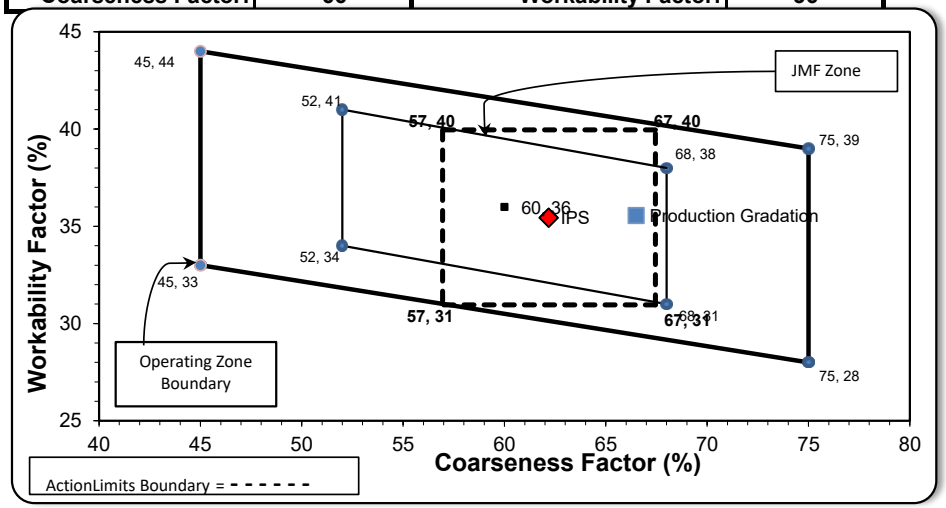
*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for the 3/4" sieve when a 1.5" max. size (nom. Max. 1.0") aggregate is used.

Production Gradation ◉ Batch Plant Gradations ○ Aggregate Supplier Gradations

Coarseness Factor:	66	Workability Factor:	36



Intial Production Sample (IPS)

Coarseness Factor:	62
Workability Factor:	35

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"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	28.4	7.0	71.6
#30	19.2	9.2	80.8
#50	8.9	10.3	91.1
#100	3.1	5.9	96.9
LBW	1.4	1.7	98.6

PREPARED BY:
SM, LLC Technical Service

Approved by:
Nancy Donaue

EDW. C. LEVY CO.
8800 Dix Avenue, Detroit, MI 48209
(313) 843-7200

Daily Summary Report

Date Friday, March 6, 2026

Sample Id	-1590545127	-1989642463	-674988893
Plant	S000 Superior Onsite	S000 Superior Onsite	S000 Superior Onsite
Product	1051 6AA LS	1067 26A Mod LS	1022 2NS GR
Specification		26A Mod LS Spec	2NS GR Spec
Sample Type	QA	QA	QA
Time	12:19	12:19	12:21
2" (50mm)	100.0	100.0	
1 1/2" (37.5mm)	100.0	100.0	
1" (25mm)	96.6	100.0	
3/4" (19mm)	75.2	100.0	
1/2" (12.5mm)	33.9	95.2	
3/8" (9.5mm)	15.8	81.0	100.0
#4 (4.75mm)	3.5	14.3	97.8
#8 (2.36mm)	2.7	4.6	81.3
#16 (1.18mm)	2.6	3.0	65.8
#30 (.6mm)	2.4	2.8	48.2
#50 (.3mm)	2.3	2.6	23.5
#100 (.15mm)	2.1	2.4	4.5
#200 (75µm)	1.89	2.2	1.3
Pan	0.00	0.0	0.0
FM			2.79
Wash Loss (#200/75um)	1.8	2.1	1.1
Total Moisture	2.1	2.4	3.1

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Daily Summary Report

Comments

Query Selections
Date Created 03/06/2026
Date Range 03/01/2026 - 03/07/2026
Plant Superior Onsite
Sample Type QA