

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-02**

Sample Date: 2/10/25

Concrete Grade: DM, 4500HP

Contractor: _____

Dates Test Represents: 2/11/2025 through 2/17/2025

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1450	8.87	2.62	49.9
26A	71-47	Presque Isle	305	1.87	2.62	10.5
2NS	63-115	Ray Rd	1150	6.95	2.65	39.6
Total Wt			2905	17.69		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"	97.0	100.0	100.0	98.5	1.5	1.5
3/4"	87.1	100.0	100.0	93.6	4.9	6.4
1/2"	40.7	93.9	100.0	69.8	23.8	30.2
3/8"	22.5	77.5	100.0	59.0	10.8	41.0
#4	4.7	17.3	96.4	42.3	16.6	57.7
#8	2.8	5.4	80.2	33.7	8.6	66.3
#16	2.5	3.3	64.5	27.1	6.6	72.9
#30	2.3	2.7	48.9	20.8	6.3	79.2
#50	2.2	2.5	24.6	11.1	9.7	88.9
#100	2.2	2.3	5.2	3.4	7.7	96.6
LBW	1.9	2.0	0.8	1.5	1.9	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.

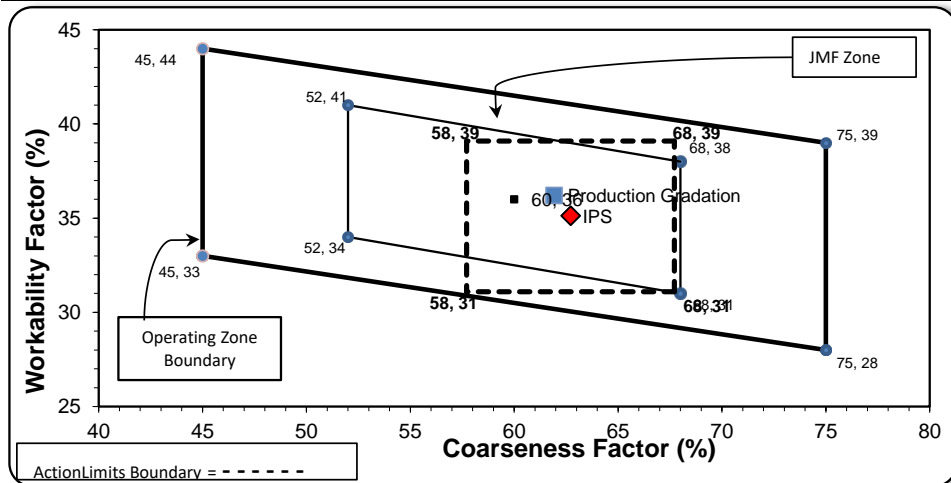
Production Gradation Batch Plant Gradations Aggregate Supplier Gradations Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	62	Workability Factor:	34	36.2
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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:



Daily Summary Report

Date Thursday, February 13, 2025

Sample Id	-1083572648	-999288392	-674917838
Plant	Superior Hoover	Superior Hoover	Superior Hoover
Product	1067 26A Mod LS	1051 6AA LS	1022 2NS GR
Specification	26A Mod LS Spec	6AA LS	2NS GR Spec
Sample Type	QA	QA	QA
Time	14:59	15:11	15:12
2" (50mm)	100.0	100.0	
1 1/2" (37.5mm)	100.0	100.0	
1" (25mm)	100.0	97.0	
3/4" (19mm)	100.0	87.1	
1/2" (12.5mm)	93.9	40.7	
3/8" (9.5mm)	77.5	22.5	100.0
#4 (4.75mm)	17.3	4.7	96.4
#8 (2.36mm)	5.4	2.8	80.2
#16 (1.18mm)	3.3	2.5	64.5
#30 (.6mm)	2.7	2.3	48.9
#50 (.3mm)	2.5	2.2	24.6
#100 (.15mm)	2.3	2.2	5.2
#200 (75µm)	2.1	2.05	1.0
Pan	0.0	0.00	0.0
FM			2.80
Wash Loss (#200/75um)	2.0	1.9	0.8
Total Moisture	4.23	4.15	3.73