

Aggregate Optimization Chart

PLANT #: **P-39**

Sample Date: 6/26/26

Concrete Grade: **S2M, 3500HP**

Contractor: _____

Dates Test Represents: 6/27/2026 through 7/3/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1400	8.34	2.69	45.8
26A	71-47	Presque Isle	480	2.86	2.69	15.7
2NS	63-0009	Koenig	1180	7.14	2.65	38.6
Total Wt			3060	18.34		100.0

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



Superior Materials, LLC

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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"	98.8	100.0	100.0	99.5	0.5	0.5
3/4"	83.7	100.0	100.0	92.5	6.9	7.5
1/2"	38.0	98.9	100.0	71.5	21.1	28.5
3/8"	19.2	81.5	100.0	60.1	11.3	39.9
#4	3.9	16.9	97.1	41.9	18.3	58.1
#8	2.3	5.1	83.1	33.9	8.0	66.1
#16	2.1	2.0	67.7	27.4	6.5	72.6
#30	2.0	1.3	49.5	20.2	7.2	79.8
#50	2.0	1.1	24.6	10.6	9.6	89.4
#100	1.9	1.0	2.5	2.0	8.6	98.0
LBW	1.6	0.9	0.4	1.0	1.0	99.0

*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.

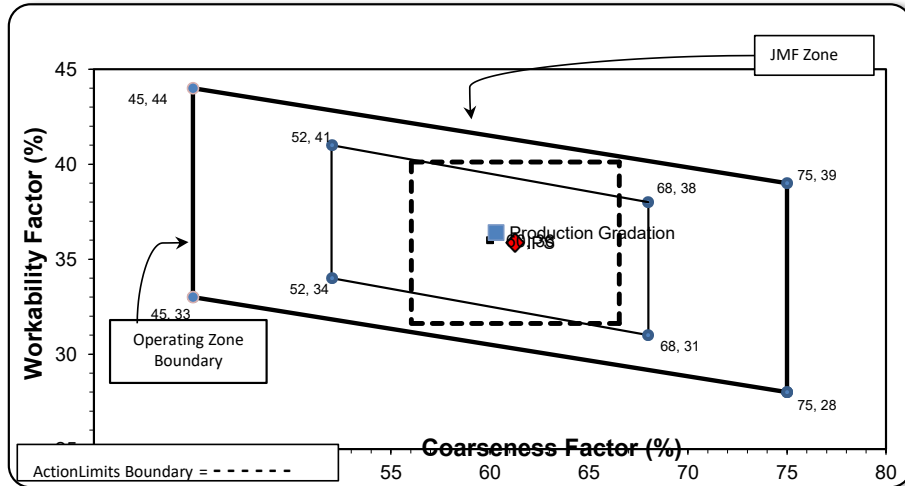
Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	60	Workability Factor:	34	36.4
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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

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