

Aggregate Optimization Chart

PLANT #: **P-103**

Sample Date: 6/20/26

Concrete Grade: **P1M, 350HP**

Contractor: _____

Dates Test Represents: 6/21/2026 through 6/28/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	58-003	Stone Co	1340	7.98	2.69	41.9
IA	58-003	Stone Co	620	3.69	2.69	19.4
2NS	63-114	Highland	1240	7.47	2.66	38.8
Total Wt			3200	19.15		100.0

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



Superior Materials, LLC

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Sieve	CA	IA	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"	65.8	100.0	100.0	85.7	14.3	14.3
3/4"	30.4	100.0	100.0	70.9	14.8	29.1
1/2"	13.0	90.0	100.0	61.6	9.2	38.4
3/8"	9.2	77.6	100.0	57.6	4.0	42.4
#4	3.6	17.2	98.9	43.2	14.5	56.8
#8	2.4	2.7	84.2	34.2	9.0	65.8
#16	1.9	2.0	64.0	26.0	8.2	74.0
#30	1.8	1.8	42.5	17.6	8.4	82.4
#50	1.7	1.7	18.8	8.3	9.2	91.7
#100	1.5	1.6	3.8	2.4	5.9	97.6
LBW	1.4	1.4	2.9	2.0	0.4	98.0

*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.

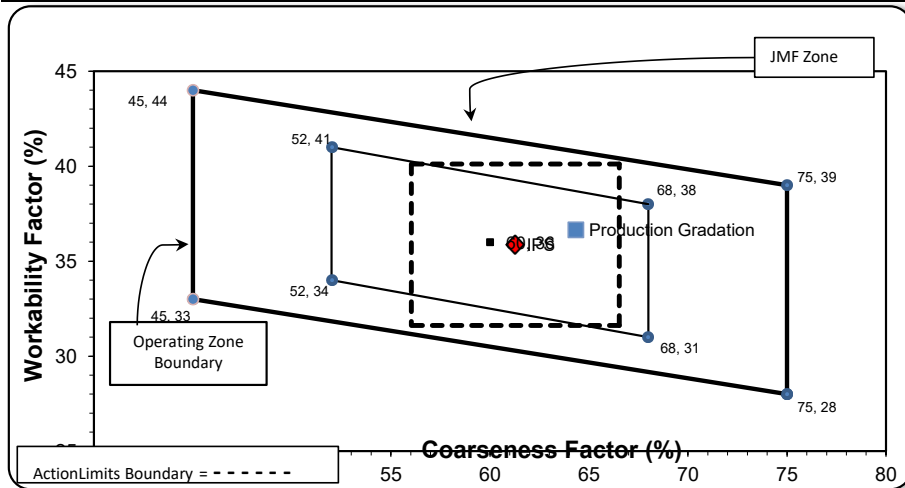
Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	64	Workability Factor:	34	36.7
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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:
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Approved By:
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