

Aggregate Optimization Chart

PLANT #: **P-35**

Contractor: _____

Sample Date: 5/30/26 (Holiday Weekend no production) Concrete Grade: **P1M, 3500HP**

Dates Test Represents: 5/31/2026 through 6/7/2026 **5" SLUMP**

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	58-003	StoneCo	1130	6.73	2.69	37.4
IA	58-003	StoneCo	740	4.41	2.69	24.5
2NS	89-019	Pleasant Lk	1150	6.95	2.65	38.1
Total Wt			3020	18.10		100.0

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



Superior Materials, LLC
 30701 W. 10 Mile Rd.
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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"	99.5	100.0	100.0	99.8	0.2	0.2
1"	53.3	100.0	100.0	82.5	17.3	17.5
3/4"	27.1	100.0	100.0	72.7	9.8	27.3
1/2"	8.9	87.1	100.0	62.8	10.0	37.2
3/8"	5.7	69.8	100.0	57.3	5.4	42.7
#4	2.3	15.9	97.5	41.9	15.4	58.1
#8	1.6	2.3	84.8	33.5	8.4	66.5
#16	1.4	1.7	66.6	26.3	7.2	73.7
#30	1.3	1.5	45.7	18.3	8.0	81.7
#50	1.2	1.3	19.9	8.3	9.9	91.7
#100	1.1	1.1	2.9	1.8	6.6	98.2
LBW	1.2	0.9	0.4	0.8	1.0	99.2

*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.

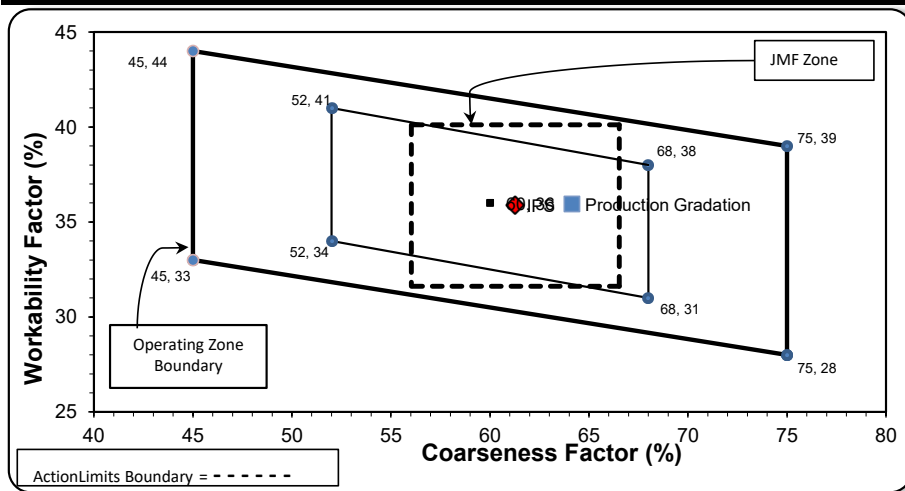
Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	64	Workability Factor:	33	36.0
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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:
 Nancy Donahue