

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-02**

Sample Date: 1/13/25

Concrete Grade: DM, 4500HP

Contractor: _____

Dates Test Represents: 1/14/2025 through 1/20/2025

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
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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"	97.6	100.0	100.0	98.8	1.2	1.2
3/4"	83.6	100.0	100.0	91.8	7.0	8.2
1/2"	39.6	96.2	100.0	69.5	22.4	30.5
3/8"	20.7	80.4	100.0	58.4	11.1	41.6
#4	3.4	16.5	98.3	42.3	16.0	57.7
#8	1.8	4.7	80.7	33.3	9.0	66.7
#16	1.7	3.0	65.0	26.9	6.4	73.1
#30	1.6	2.6	49.7	20.7	6.1	79.3
#50	1.5	2.5	26.5	11.5	9.2	88.5
#100	1.3	2.3	6.5	3.5	8.0	96.5
LBW	1.1	2.0	1.1	1.2	2.3	98.8

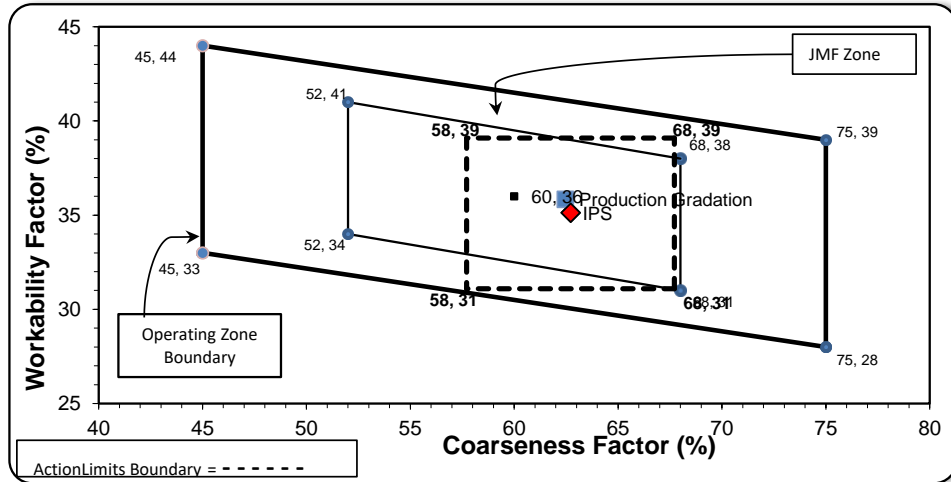
*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for the 3/4" sieve when a 1.5" max. size (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: 33	35.8
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Coarseness Factor: 63

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"	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: