

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-02**

Sample Date: **2/3/25**

Concrete Grade: **DM, 4500HP**

Contractor: _____

Dates Test Represents: **2/4/2025** through **2/10/2025**

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%

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"	81.1	100.0	100.0	90.6	7.9	9.4
1/2"	36.8	94.4	100.0	67.9	22.7	32.1
3/8"	18.0	79.6	100.0	56.9	10.9	43.1
#4	2.9	17.2	99.0	42.4	14.5	57.6
#8	1.7	5.1	79.9	33.0	9.4	67.0
#16	1.5	2.8	63.6	26.2	6.8	73.8
#30	1.4	2.4	48.3	20.1	6.1	79.9
#50	1.3	2.2	25.4	10.9	9.1	89.1
#100	1.2	2.1	5.9	3.2	7.8	96.8
LBW	1.0	1.8	1.0	1.1	2.1	98.9

*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.



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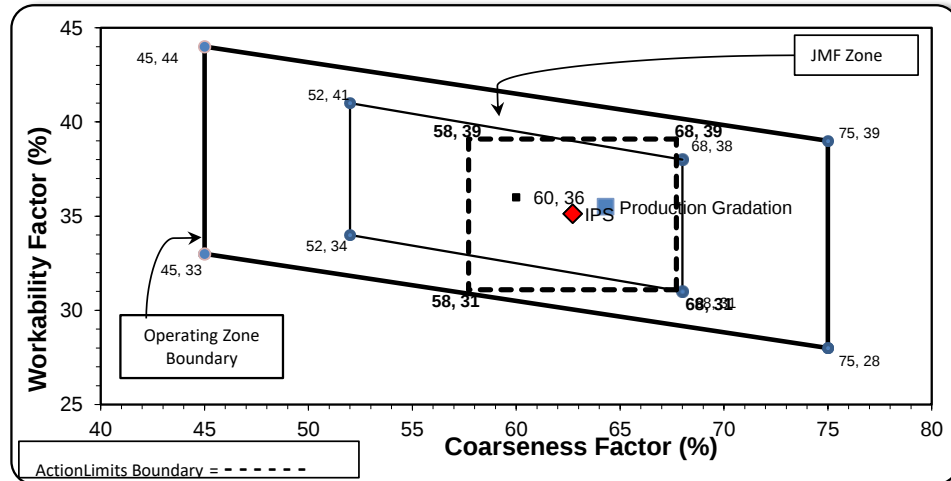
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	64	Workability Factor:	33	35.5
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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:

[Signature]