

Aggregate Optimization Chart

PLANT #: **P-102**

Sample Date: 2/26/24

Concrete Grade: **S2M, 3500HP**

Contractor: _____

Dates Test Represents: 2/27/2024 through 3/4/2024

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1550	9.23	2.69	50.0
26A	58-003	Stoneco	350	2.09	2.69	11.3
2NS	63-114	Highland	1200	7.26	2.65	38.7
Total Wt			3100	18.58		100.0

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



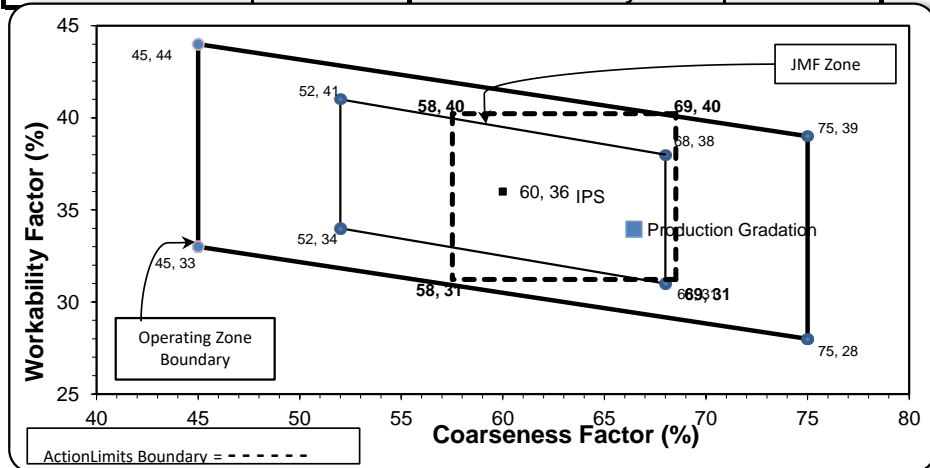
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Sieve	6AA	26A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	99.5	100.0	100.0	99.8	0.3	0.3
3/4"	83.1	100.0	100.0	91.6	8.2	8.5
1/2"	37.5	98.8	100.0	68.6	22.9	31.4
3/8"	15.3	86.4	100.0	56.1	12.5	43.9
#4	3.4	10.6	99.0	41.2	14.9	58.8
#8	2.7	3.2	83.3	34.0	7.3	66.0
#16	2.5	2.2	64.8	26.6	7.4	73.4
#30	2.3	1.9	45.2	18.9	7.7	81.1
#50	2.2	1.7	17.7	8.1	10.7	91.9
#100	1.9	1.6	3.0	2.3	5.9	97.7
LBW	1.7	1.5	0.5	1.2	1.1	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

Coarseness Factor: **66** **Workability Factor:** **34**



Initial Production Sample (IPS)

Coarseness Factor: **63**
Workability Factor: **36**

Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.5	11.8	40.5
#4	43.8	15.7	56.2
#8	35.7	8.1	64.3
#16	27.0	8.7	73.0
#30	18.6	8.4	81.4
#50	6.8	11.8	93.2
#100	1.4	5.4	98.6
LBW	0.6	0.8	99.4

PREPARED BY:
 SM, LLC Technical Service

Approved By: