

Aggregate Optimization Chart

MIX ID'S: DDP154E7 and DDP154E8

Production Gradation Report

PLANT #: **P-102**

Sample Date: 10/23/17

Concrete Grade: **P1M**

Contractor: _____

Dates Test Represents: 10/23/2017 to 10/29/2017

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	58-003	Stoneco	1270	7.57	2.69	40.3
IA	58-003	Stoneco	650	3.87	2.69	20.6
2NS	63-114	AA Highland	1230	7.44	2.65	39.0
Total Wt			3150	18.88		100.0

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

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"	61.7	100.0	100.0	84.6	15.4	15.4
3/4"	31.7	100.0	100.0	72.5	12.1	27.5
1/2"	14.6	94.0	100.0	64.3	8.1	35.7
3/8"	6.1	81.7	100.0	58.4	6.0	41.6
#4	2.6	24.8	99.7	45.1	13.3	54.9
#8	2.1	5.4	86.1	35.6	9.5	64.4
#16	1.5	2.2	67.5	27.4	8.2	72.6
#30	1.5	1.7	46.1	19.0	8.5	81.0
#50	1.4	1.5	14.8	6.7	12.3	93.3
#100	1.4	1.4	2.6	1.9	4.8	98.1
LBW	1.2	1.2	0.4	0.9	1.0	99.1

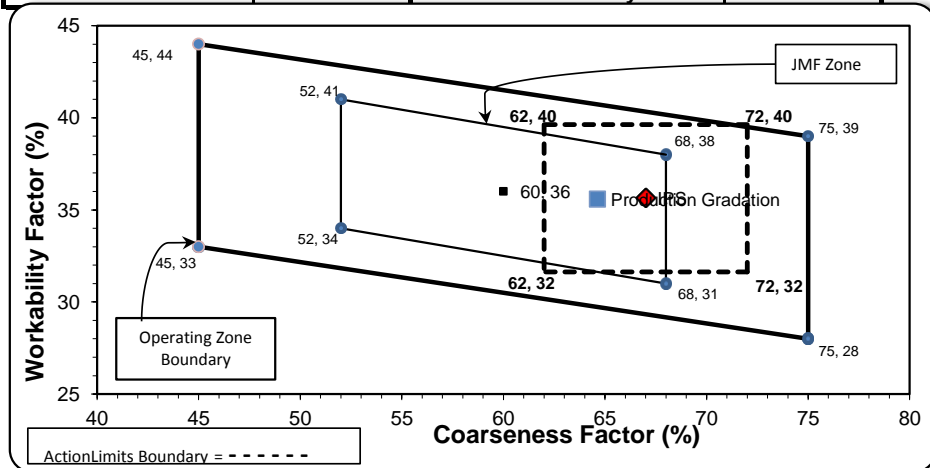
*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 8% for the 1" sieve when a 2" max. size (nom. Max. 1.5") aggregate is used.



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Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor: **65** Workability Factor: **36**



Initial Production Sample (IPS)

Coarseness Factor: **67**
 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"	87.2	12.8	12.8
3/4"	76.6	10.6	23.4
1/2"	64.4	12.2	35.6
3/8"	56.9	7.6	43.1
#4	44.1	12.7	55.9
#8	35.6	8.5	64.4
#16	27.7	8.0	72.3
#30	19.5	8.2	80.5
#50	7.8	11.6	92.2
#100	2.3	5.6	97.7
LBW	0.6	1.6	99.4

PREPARED BY:

Approved By: