

Aggregate Optimization Chart

MIX ID'S: DDS257E7 and DDS257E8

Production Gradation Report

PLANT #: **P-32**

Sample Date: 11/20/17

Concrete Grade: **S2M**

Contractor: _____

Dates Test Represents: 11/20/2017 to 11/26/2017

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1530	9.36	2.62	49.2
26A	71-47	Presque Isle	305	1.87	2.62	9.8
2NS	95-13	Smelter Bay	1275	7.71	2.65	41.0
Total Wt			3110	18.93		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"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	89.8	100.0	100.0	95.0	5.0	5.0
1/2"	45.5	97.2	100.0	72.9	22.1	27.1
3/8"	22.1	85.4	100.0	60.2	12.7	39.8
#4	2.7	21.6	96.6	43.0	17.2	57.0
#8	1.6	5.3	82.7	35.2	7.8	64.8
#16	1.4	2.7	66.5	28.2	7.0	71.8
#30	1.4	2.2	46.3	19.9	8.3	80.1
#50	1.4	2.0	20.5	9.3	10.6	90.7
#100	1.3	1.9	6.6	3.5	5.8	96.5
LBW	1.2	1.6	1.6	1.4	2.1	98.6

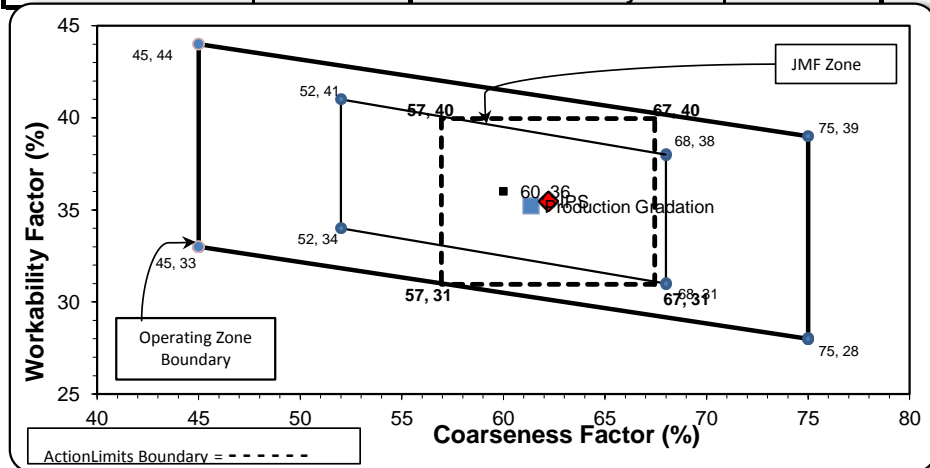
*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 8% for the 1" sieve when a 2" max. size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



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Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor: 61 **Workability Factor: 35**



Initial Production Sample (IPS)

Coarseness Factor: 62		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"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	28.4	7.0	71.6
#30	19.2	9.2	80.8
#50	8.9	10.3	91.1
#100	3.1	5.9	96.9
LBW	1.4	1.7	98.6

PREPARED BY:
 SM, LLC Technical Service

Approved By: