

Aggregate Optimization Chart

Production Gradation Report

PLANT #: p11

Sample Date: 11/18/24

Dates Test Represents: 11/19/2024 through 11/25/2024

Concrete Grade: S2M, 3500HP

Contractor: _____

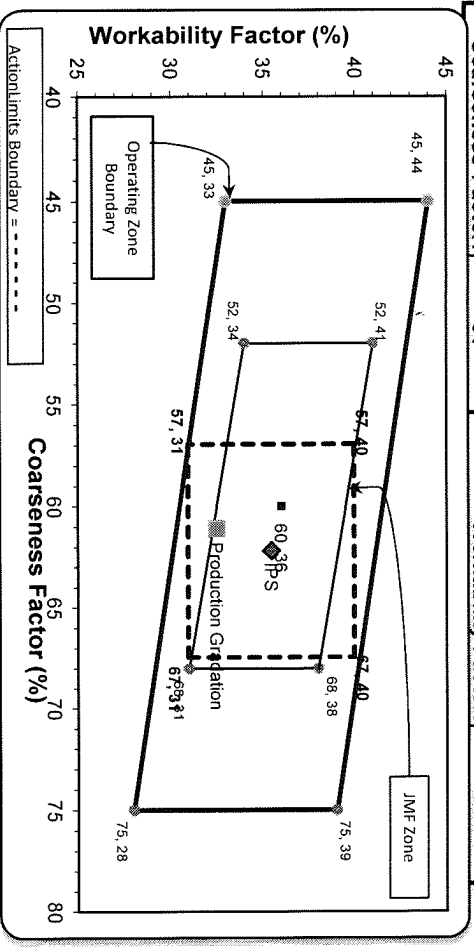
MIDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1670	10.21	2.62	54.8
26A	71-47	Presque Isle	150	0.92	2.62	4.9
2NS	63-115	Ray Rd	1230	7.44	2.65	40.3
		Total Wt	3050	18.57		100.0

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"	96.5	100.0	100.0	98.1	1.9	1.9
3/4"	83.5	100.0	100.0	91.0	7.1	9.0
1/2"	44.1	94.3	100.0	69.1	21.9	30.9
3/8"	26.7	77.8	100.0	58.8	10.3	41.2
#4	4.0	14.8	96.0	41.6	17.1	58.4
#8	1.7	4.9	77.7	32.5	9.1	67.5
#16	1.5	3.6	59.0	24.8	7.7	75.2
#30	1.4	3.2	40.9	17.4	7.4	82.6
#50	1.4	3.1	20.9	9.3	8.1	90.7
#100	1.3	2.9	5.0	2.9	6.5	97.1
LBW	1.1	2.8	0.7	1.0	1.8	99.0

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

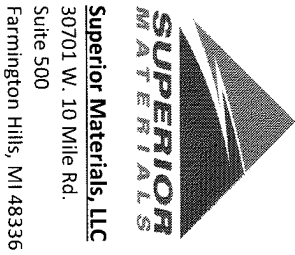
Coarseness Factor: 61 Workability Factor: 33



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



*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.

PREPARED BY: SM, LLC Technical Service

Approved By: _____

Daily Summary Report

Date Tuesday, November 19, 2024

Sample Id	Plant	Onsite Jefferson	Onsite Jefferson	Onsite Jefferson	Onsite Jefferson	Onsite Jefferson
-1989649117		7919	1051	7920	1067	1022
COARSE AGG P1M LS		6AA LS	INTERMED AGG P1M LS	26A Mod LS	2NS GR	
Specification	Coarse Agg P1M LS Target		Intermed Agg P1M LS Target	26A Mod LS Spec	2NS GR Spec	
Sample Type	QA	QA	QA	QA	QA	
Time	11:42	11:43	11:44	11:45	11:46	
2" (50mm)	100.0	100.0	100.0	100.0	100.0	
1 1/2" (37.5mm)	96.8	100.0	100.0	100.0	96.0	
1" (25mm)	34.5	96.5	100.0	100.0	77.7	
3/4" (19mm)	8.9	83.5	99.5	100.0	59.0	
1/2" (12.5mm)	4.2	44.1	74.9	94.3	40.9	
3/8" (9.5mm)	3.7	26.7	40.9	77.8	20.9	
#4 (4.75mm)	2.9	4.0	5.5	14.8	5.0	
#8 (2.36mm)	2.6	1.7	3.2	4.9	0.8	
#16 (1.18mm)	2.5	1.5	2.9	3.6	0.0	
#30 (.6mm)	2.4	1.4	2.8	3.2	0.0	
#50 (.3mm)	2.3	1.4	2.7	3.1	0.0	
#100 (.15mm)	2.1	1.3	2.7	2.9	0.0	
#200 (75µm)	1.9	1.22	2.5	2.8	0.0	
Pan	0.0	0.00	0.0	0.0	0.0	
FM					3.00	
Wash Loss (#200/75um)	1.7	1.1	2.4	2.8	0.7	
Total Moisture	1.9	3.2	3.1	3.9	5.3	