

Aggregate Optimization Chart

Production Gradation Report

PLANT #: P-36

Sample Date: 3/2/20

Dates Test Represents: 3/3/2020 through 3/9/2020

Concrete Grade: DM

Contractor: _____

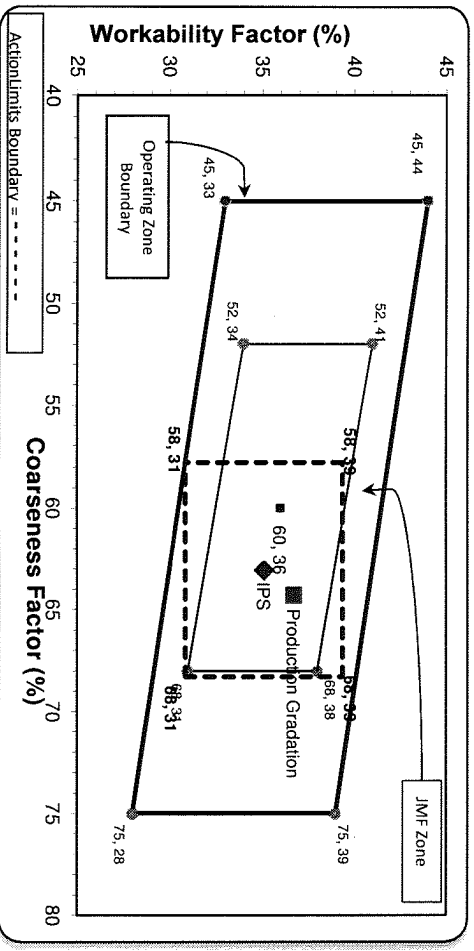
MDOT No.: _____

Agg. Class	Pit #	Source	Weight (ssd)	ft ³	Specific Gravity	Contribution %
6AA	71-47	Presque Isle	1705	10.43	2.62	58.7
26A	71-47	Presque Isle	100	0.61	2.62	3.4
2NS	63-92	Grange Hall	1100	6.65	2.65	37.9
Total Wt			2905	17.69		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"	99.4	100.0	100.0	99.6	0.4	0.4
3/4"	91.4	100.0	100.0	95.0	4.7	5.0
1/2"	53.6	98.0	100.0	72.7	22.3	27.3
3/8"	28.4	92.2	100.0	57.7	15.0	42.3
#4	5.3	22.1	97.7	40.9	16.8	59.1
#8	2.6	6.0	85.8	34.2	6.6	65.8
#16	2.3	3.1	70.6	28.2	6.0	71.8
#30	2.2	2.4	52.2	21.1	7.1	78.9
#50	2.2	2.2	22.9	10.0	11.1	90.0
#100	2.1	2.0	4.2	2.9	7.1	97.1
LBW	1.8	1.7	0.9	1.5	1.4	98.5

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor: 64 Workability Factor: 34 Adjusted WF: 36.7



Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.1	0.9	0.9
3/4"	90.3	8.8	9.7
1/2"	69.2	21.1	30.8
3/8"	59.1	10.1	40.9
#4	41.8	17.3	58.2
#8	35.1	6.6	64.9
#16	28.5	6.6	71.5
#30	21.2	7.3	78.8
#50	8.7	12.5	91.3
#100	1.8	7.0	98.2
LBW	0.7	1.0	99.3

Coarseness Factor: 64 Workability Factor: 34 Adjusted WF: 36.7

Coarseness Factor: 63 Workability Factor: 35



*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.

PREPARED BY:
SM, LLC Technical Service

Approved By: _____



Superior Auburn Hills
 2470 Auburn Road
 Auburn Hills, MI 48432

Plant S36-Superior Auburn Hills

Product 1051-6AA LS

Name/Title Doug Storey / QC Technician

Period: 03/01/2020 - 03/07/2020

Report Date 03/06/2020

Procedure	Sieve/Test	Result	Unit	6AA LS
	2" (50mm)	100.0	%	
	1 1/2" (37.5mm)	100.0	%	100-100
	1" (25mm)	99.4	%	95-100
	3/4" (19mm)	91.4	%	
	1/2" (12.5mm)	53.6	%	30-60
	3/8" (9.5mm)	28.4	%	
	#4 (4.75mm)	5.3	%	0-8
	#8 (2.36mm)	2.6	%	
	#16 (1.18mm)	2.3	%	
	#30 (0.6mm)	2.2	%	
	#50 (0.3mm)	2.2	%	
	#100 (0.15mm)	2.1	%	
	#200 (75µm)	1.93	%	
	Wash Loss (#200/75um)	1.8	%	0-2
	Total Moisture	3.39	%	



Superior Auburn Hills
 2470 Auburn Road
 Auburn Hills, MI 48432

Plant S36-Superior Auburn Hills

Product 1067-26A Mod LS

Name/Title Doug Storey / QC Technician

Period: 03/01/2020 - 03/07/2020

Report Date 03/06/2020

Procedure	Sieve/Test	Result	Unit	26A LS Spec
	2" (50mm)	100.0	%	
	1 1/2" (37.5mm)	100.0	%	
	1" (25mm)	100.0	%	
	3/4" (19mm)	100.0	%	100-100
	1/2" (12.5mm)	98.0	%	95-100
	3/8" (9.5mm)	92.2	%	60-95
	#4 (4.75mm)	22.1	%	5-30
	#8 (2.36mm)	6.0	%	0-12
	#16 (1.18mm)	3.1	%	
	#30 (0.6mm)	2.4	%	
	#50 (0.3mm)	2.2	%	
	#100 (0.15mm)	2.0	%	
	#200 (75µm)	1.8	%	
	Wash Loss (#200/75um)	1.7	%	0-3
	Total Moisture	3.17	%	



Superior Auburn Hills
2470 Auburn Road
Auburn Hills, MI 48432

Plant S36-Superior Auburn Hills

Product 1022-2NS GR

Name/Title Doug Storey / QC Technician

Period: 03/01/2020 - 03/07/2020

Report Date 03/05/2020

Procedure	Sieve/Test	Result	Unit	2NS GR Spec
	3/8" (9.5mm)	100.0	%	100-100
	#4 (4.75mm)	97.7	%	95-100
	#8 (2.36mm)	85.8	%	65-95
	#16 (1.18mm)	70.6	%	35-75
	#30 (0.6mm)	52.2	%	20-55
	#50 (0.3mm)	22.9	%	10-30
	#100 (0.15mm)	4.2	%	0-10
	#200 (75µm)	1.1	%	
	FM	2.67		2.6-3
	Wash Loss (#200/75um)	0.9	%	0-3
	Total Moisture	4.02	%	