4/3/23

PLANT #: P-102

Sample Date:

Concrete Grade: S2M, 3500HP

Dates Test Represents: 4/4/2023 4/10/2023 through Specific % ft<sup>3</sup> Agg. Class Pit# Source Weight (SSD) Gravity Contribution Stoneco 6AA 58-003 1570 9.35 2.69 50.6 26A 58-003 Stoneco 330 1.97 2.69 10.6 2NS 81-019 Pleasant Lake 1200 7.26 2.65 38.7 Total Wt 3100 18.58

Contractor:

MDOT No.:

SUPERIOR

<---- Verify this number is 100%

Superior Materials, LLC
30701 W. 10 Mile Rd.
Suite 500
Farmington Hills, MI 48336

	10101			10010		uniber 16 10070
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"	88.1	100.0	100.0	94.0	6.0	6.0
1/2"	46.8	100.0	100.0	73.1	20.9	26.9
3/8"	24.3	89.6	100.0	60.6	12.5	39.4
#4	3.0	12.4	96.8	40.3	20.2	59.7
#8	1.3	3.4	82.4	32.9	7.4	67.1 r
#16	0.7	2.2	66.4	26.3	6.6	73.7
#30	0.6	1.8	48.8	19.4	6.9	80.6 r
#50	0.6	1.7	23.5	9.6	9.8	90.4
#100	0.6	1.6	6.5	3.0	6.6	97.0
LBW	0.8	1.4	1.3	1.1	1.9	98.9

\*Maximum % Retained must be above the 3/8" sieve.

\*Any two adjacent sieves must equal 10% except max.,

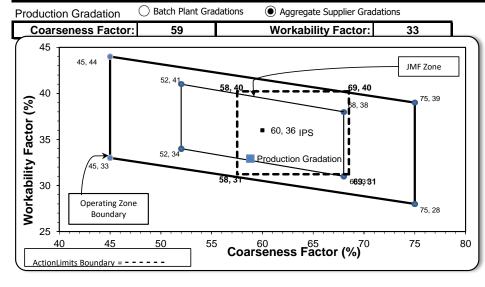
nom. max., #100 and #200 sieves.

 $^{*}\%$  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.



Intial Production Sample (IPS)

Coarseness Factor:		63	
Work	Workability Factor:		
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% 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

PLANT #: 12

Sample Date:

4/3/23 Concrete Grade: S2M, 3500HP

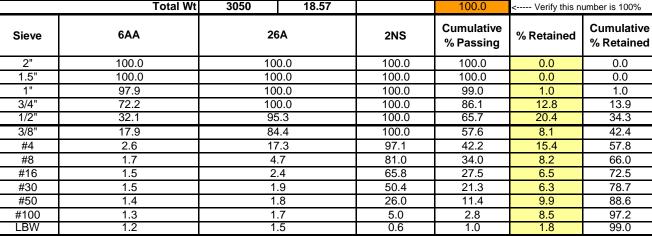
Dates Test F	Represents:	4/4/2023	through	4/10/2023		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1520	9.30	2.62	49.8
26A	71-47	Presque Isle	300	1.83	2.62	9.8
2NS	63-115	Ray Rd	1230	7.44	2.65	40.3
	·	T . ( . I M/c	0050	40.57		400.0

Contractor:

MDOT No.:

---- Verify this number is 100%

Cumulative	
% Retained	30701 W. 10 Mile Rd.
0.0	Suite 500
0.0	Farmington Hills, MI 48336



\*Maximum % Retained must be above the 3/8" sieve.

\*Any two adjacent sieves must equal 10% except max.,

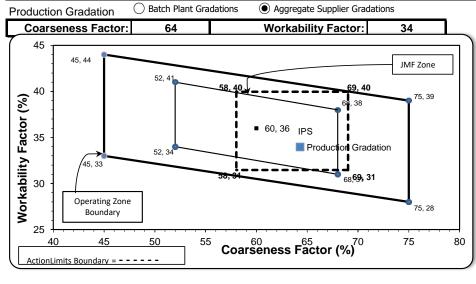
nom. max., #100 and #200 sieves.

\*% 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



Intial Production Sample (IPS)

Coars	eness Factor:	64	
Work	Workability Factor:		
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% 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"	59.2	12.1	40.8
#4	41.5	17.7	58.5
#8	35.7	5.8	64.3
#16	27.9	7.9	72.1
#30	18.3	9.5	81.7
#50	7.3	11.0	92.7
#100	2.0	5.3	98.0
LBW	0.9	1.1	99.1

PREPARED BY: SM, LLC Technical Service

PLANT #: P-32

Sample Date:

4/3/23 Concrete Grade: S2M, 3500HP

Dates Test Represents:		4/4/2023	through	4/10/2023			
	Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
	6AA	71-47	Presque Isle	1500	9.17	2.62	49.2
	26A	71-47	Presque Isle	320	1.96	2.62	10.5
	2NS	95-013	Smelter Bay	1230	7.44	2.65	40.3
	Total Wt			3050	18.57		100.0

Contractor:

MDOT No.:



<---- Verify this number is 100%

Cumulative % Retained	Superior Materials, LLC
6 Retained	30701 W. 10 Mile Rd.
0.0	Suite 500
0.0	Farmington Hills, MI 48336

	Total Wit	10.07		100.0	< Verily tills if	umber 13 10070
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"	96.9	100.0	100.0	98.5	1.5	1.5
3/4"	72.4	100.0	100.0	86.4	12.0	13.6
1/2"	33.4	95.3	100.0	66.8	19.7	33.2
3/8"	19.3	84.4	100.0	58.7	8.1	41.3
#4	2.6	17.3	96.7	42.1	16.6	57.9
#8	1.7	4.7	84.8	35.5	6.6	64.5
#16	1.5	2.4	69.8	29.1	6.4	70.9
#30	1.5	1.9	50.8	21.4	7.7	78.6
#50	1.4	1.8	24.8	10.9	10.5	89.1
#100	1.3	1.7	6.8	3.6	7.3	96.4
LBW	1.1	1.5	1.2	1.2	2.4	98.8
·	_	•				

\*Maximum % Retained must be above the 3/8" sieve.

\*Any two adjacent sieves must equal 10% except max.,

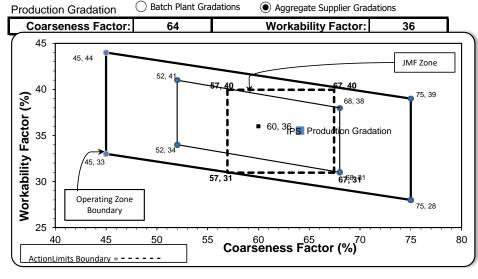
nom. max., #100 and #200 sieves.

\*% Retained must be at least 4% for each sieve except max.,

nom. max., #100 and #200 sieves.

\*% Retained must be at least 8% for the 1" sieve when

a 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production Sample (IPS)

Coarseness Factor:		62	
Work	Workability Factor:		
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% 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: