

Project Name: I-96 (Kent Lake to I-275)  
 Contractor Name: Daytona Redi Mix  
 MDOT Project #: 63022-124103  
 Maximum Aggregate Size (inches): 1.5

Representative Date: 07/16/24 through 07/23/24  
 CT Project #: 230408  
 Mix ID #: BW-009 (Slipform)

MATERIALS				
Type	Source	Class	Spec. Grav.	F/T Dialation
Coarse	Stoneco-Ottawa Lake (58-0003CA)	CA	2.69	0.010
Intermediate 1	Stoneco-Ottawa Lake (58-0003CA)	IA	2.68	0.010
			1.00	
Fine	Stoneco-Moscow (30-0071SG)	Fine	2.63	
Cement	Ash Grove-Missauga	Type IL	3.10	
GGBFS	Ash Grove-Detroit	Grade 100	2.91	
ADMIXTURES				
Type	Supplier	Dosage (oz/cwt)		
Mapair SA	MAPEI	3.5		
Mapetard R	MAPEI	3		

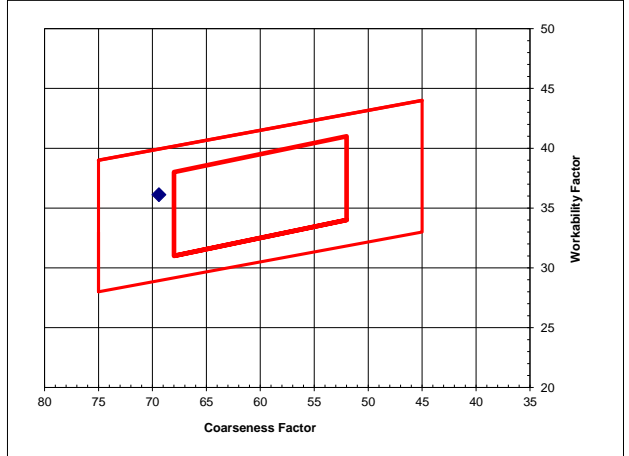
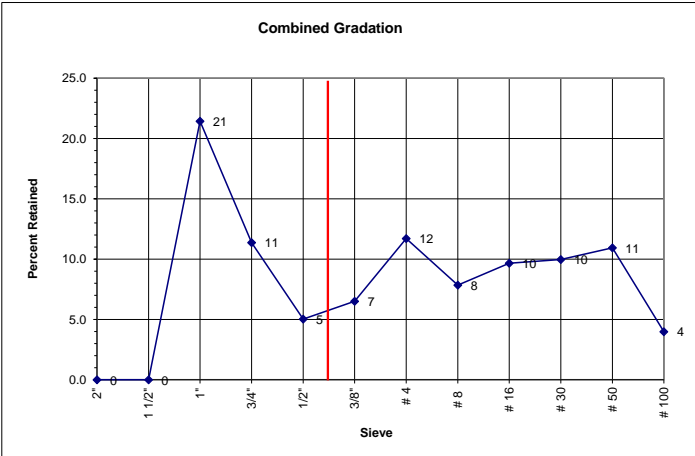
PROPORTIONS (SSD)				
Type	Wt. lbs.	Sp. Grav.	Vol. ft <sup>3</sup>	% Vol.
Cement	458	3.1	2.37	
GGBFS	153	2.91	0.84	
Coarse	1340	2.69	7.98	43.75
Intermediate 1	500	2.68	2.99	16.38
		1.00	0.00	0.00
Fine	1194	2.63	7.28	39.87
27.03				
Water	238	1	3.81	
Air, %	6.5		1.76	
Total Cementitious:		611	lbs. or	6.5 bag
Water/Cement Ratio:		0.39		
Percent Cementitious Replacement:		25%		

	GRADATIONS								Gradation Date: <u>7/16/2024</u>			
	Coarse		Intermediate 1		Fine		Fine					
	SSD wt., lbs	1340	500	0	1194	Total % Passing	% Cumm. Retained	Retained Sieve, %	Retained Spec. %			
Abs. Volume	7.98	2.99	0.00	7.28								
Aggregate % Vol.	43.7	16.4	0.0	39.9								
Sieves	% Pass	% Mix	% Pass	% Mix	% Pass	% Mix	% Pass	% Mix	Total % Passing	% Cumm. Retained	Retained Sieve, %	Retained Spec. %
2"	100.0	43.7	100.0	16.4	0.0	100.0	39.9	100.0	0.0	0.0		
1 1/2"	100.0	43.7	100.0	16.4	0.0	100.0	39.9	100.0	0.0	0.0		
1"	51.0	22.3	100.0	16.4	0.0	100.0	39.9	78.6	21.4	21.4		
3/4"	25.0	10.9	100.0	16.4	0.0	100.0	39.9	67.2	32.8	11.4		
1/2"	15.0	6.6	96.0	15.7	0.0	100.0	39.9	62.2	37.8	5.0		
3/8"	8.0	3.5	75.0	12.3	0.0	100.0	39.9	55.7	44.3	6.5		
# 4	2.0	0.9	22.0	3.6	0.0	99.0	39.5	44.0	56.0	11.7		
# 8	1.0	0.4	6.0	1.0	0.0	87.0	34.7	36.1	63.9	7.8		
# 16	1.0	0.4	3.0	0.5	0.0	64.0	25.5	26.4	73.6	9.7		
# 30	1.0	0.4	3.0	0.5	0.0	39.0	15.5	16.5	83.5	10.0		
# 50	1.0	0.4	2.0	0.3	0.0	12.0	4.8	5.5	94.5	10.9		
# 100	1.0	0.4	2.0	0.3	0.0	2.0	0.8	1.6	98.4	4.0		
# 200	1.0	0.4	1.9	0.3	0.0	1	0.5	1.3	98.7	0.3		

Fine Aggregate Fineness Modulus: 2.97 FM

Coarseness Factor (x-axis): 69.4  
 ((cumm. Ret 3/8 / cumm. Ret #8) x 100)

Workability Factor (y-axis): 36.1  
 (Pass #8 + Adjustment Factor)



Approved By: James A. Plohg  
 Signature: James A. Plohg