



Concrete Cylinder Test Report

PROJECT INFO

ASTM C31, ASTM C39, AASHTO T23, AASHTO T22, ASTM C172, AASHTO R60

Client	AECOM	Date Of Placement	12/06/2022
Project Name	PW-7023 Conner Improvements	Specimen Type	Concrete Cylinder
Project Number	2019057D-002	Contractor	merlo
Project Location	Detroit, MI	Concrete Supplier	Hercules Material Holdings, LLC
MDOT Job Number		Field Tested By	Nate Carr
MDOT Control Section		Date Issued	01/03/2023
Results Recorded In	English Units		
Supplier Mix Description	Detroit P1 6 Sack 3500 PSI W/MR		

DESIGN PARAMETER

Mix Design Number	1120 P1-DETM				
Design Compressive Strength (psi)	3500				
Air (% Max)	8.5	Slump (in Max)	6.00	Unit Weight (lbs/ft ³)	
Air (% Min)	5.5	Slump (in Min)	0		

TESTING DATA

Placed 5.50 +/- yds ³ /ft ³ of concrete at the following location: Sidewalk and curb @ SE quad of Warren and Conner (Detroit)									
Time Tested	Truck Num	Slump ASTM C143 (in)	Air ASTM C231 or C173 (%)	Unit Weight ASTM C138 (lbs/ft ³)	Air Temp (°F)	Mix Temp ASTM C1064 (°F)	Concrete Cylinder Set	Water Added (gal)	Cumulative Concrete Placed At Test (yds ³ /ft ³)
1:07 PM	2105	2.00	5.50	0.0	45	57	1	0	4

MATERIAL DATA

Concrete Cylinder Set	Concrete Cylinder Num	Diameter (in)	X-Sec Area (in ²)	Weight (lbs)	Fracture Type	Capping Process	Age Of Concrete Cylinder (Days)	Date Tested	Total Load At Failure (lbs)	Cumulative Strength (psi/mpa)
1	95213	4.00	12.57	8.40	2- (Cone/Vertical)	Unbonded Cap	28	01/03/2023	68970	5490
1	95214	4.00	12.57	8.42	2- (Cone/Vertical)	Unbonded Cap	28	01/03/2023	63200	5030

Average 28 Day Compressive Strength (psi): 5260

*Cylinders tested with Unbonded Caps followed ASTM C1231, cylinders tested with Bonded Caps followed ASTM C617.

*All Air Content % tests were performed per C231 unless otherwise noted in the remarks.

*Inspector was notified of non-conformance items, if any.

*Average Compressive Strength results did meet project specifications.

Remarks:	
Results Reported To:	AECOM(Alan Ostrowski)
Report Approved By:	Brian Gondek