



## Concrete Cylinder Test Report

### PROJECT INFO - DRAFT ONLY

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

|                      |                               |                   |                   |
|----------------------|-------------------------------|-------------------|-------------------|
| Client               | AECOM                         | Date Of Placement | 11/25/2020        |
| Project Name         | PW-7005 Kercheval Streetscape | Specimen Type     | Concrete Cylinder |
| Project Number       | 2019057B                      | Contractor        | Major Cement      |
| Project Location     | Detroit, MI                   | Concrete Supplier | SRM Concrete      |
| MDOT Job Number      |                               | Field Tested By   | Cody Cervelli     |
| MDOT Control Section |                               | Date Issued       | 11/26/2020        |

|                          |                      |
|--------------------------|----------------------|
| Results Recorded In      | English Units        |
| Supplier Mix Description | MDOT P-NC - 6" Slump |

### DESIGN PARAMETER

|                                   |               |                |      |                                    |  |
|-----------------------------------|---------------|----------------|------|------------------------------------|--|
| Mix Design Number                 | 0749 P-NCOM-1 |                |      |                                    |  |
| Design Compressive Strength (psi) | 3500          |                |      |                                    |  |
| Air (% Max)                       | 8.5           | Slump (in Max) | 6.00 | Unit Weight (lbs/ft <sup>3</sup> ) |  |
| Air (% Min)                       | 5.5           | Slump (in Min) | 3.00 |                                    |  |

### TESTING DATA

| Placed 11.00 +/- yds <sup>3</sup> /ft <sup>3</sup> of concrete at the following location: Base Curb & Sidewalks on NB side of Kercheval between E. Grand Blvd. & Van Dyke. |           |                      |                           |                                              |               |                          |                       |                   |                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------|---------------------------|----------------------------------------------|---------------|--------------------------|-----------------------|-------------------|-------------------------------------------------------------------------|
| Time Tested                                                                                                                                                                | Truck Num | Slump ASTM C143 (in) | Air ASTM C231 or C173 (%) | Unit Weight ASTM C138 (lbs/ft <sup>3</sup> ) | Air Temp (°F) | Mix Temp ASTM C1064 (°F) | Concrete Cylinder Set | Water Added (gal) | Cumulative Concrete Placed At Test (yds <sup>3</sup> /ft <sup>3</sup> ) |
| 8:15 AM                                                                                                                                                                    | 415       | 5.50                 | 6.60                      | 0.0                                          | 43            | 60                       | 1                     | 0                 | 1                                                                       |

### MATERIAL DATA

| Concrete Cylinder Set | Concrete Cylinder Num | Diameter (in) | X-Sec Area (in <sup>2</sup> ) | Weight (lbs) | Fracture Type | Capping Process | Age Of Concrete Cylinder (Days) | Date Tested | Total Load At Failure (lbs) | Cumulative Strength (psi/mpa) |
|-----------------------|-----------------------|---------------|-------------------------------|--------------|---------------|-----------------|---------------------------------|-------------|-----------------------------|-------------------------------|
| 1                     | 82100                 |               |                               |              |               |                 | 28                              | 12/23/2020  |                             |                               |
| 1                     | 82101                 |               |                               |              |               |                 | 28                              | 12/23/2020  |                             |                               |

**Average 28 Day Compressive Strength (psi): 0**

\*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 not meet project specifications.

|                      |               |
|----------------------|---------------|
| Remarks:             |               |
| Results Reported To: |               |
| Report Approved By:  | Cody Cervelli |