

## REPORT OF CONCRETE FIELD & LABORATORY TESTING

**CLIENT:** DN Tanks  
 11 Teal Road  
 Wakefield, MA 01880  
 Attn: Mr. Jake Sreca

**PROJECT:** Middletown CT  
 224 Talcott Ridge Drive  
 Middletown, CT

**DATE:** September 30, 2020

**REPORT #:** 20-07-161-011

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**General Location:** Wall Panels

**Date Cast:** 9/1/2020  
**Field Rep:** Stephen Sturges  
**Contractor:** DN Tanks  
**Concrete Supplier:** CT Ready Mix  
**Concrete Admixtures:** Mix B  
**Air Temp:** 70 °F  
**Weather:** Sunny  
**Nominal Size of Aggr:** 3/4"  
**Date Received by Lab:** 9/2/2020

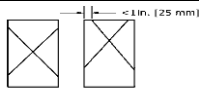
**FIELD TEST RESULTS (Sampled in accordance with ASTM C172)**

| TICKET # | *# CYL | SLUMP TEST (in)<br>(ASTM C143) | AIR CONTENT (%)<br>(ASTM C231) | TEMPERATURE (°F)<br>(ASTM C1064) | ELAPSED TIME |         |             |
|----------|--------|--------------------------------|--------------------------------|----------------------------------|--------------|---------|-------------|
|          |        |                                |                                |                                  | Batch        | Final   | Total (Min) |
| 1008470  | 7      | 5.50"                          | 5.50%                          | 76 °F                            | 6:43 AM      | 8:40 AM | 117         |
|          |        |                                |                                |                                  |              |         |             |
|          |        |                                |                                |                                  |              |         |             |
|          |        |                                |                                |                                  |              |         |             |

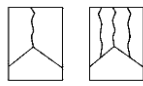
*\*Specimens molded/conditioned in accordance with ASTM C31/ASTM C1231*

**LABORATORY COMPRESSIVE STRENGTH TESTING (ASTM C39)**

| Date of Test | Cylinder ID | Age | Cure | Avg Measured Diameter (in) | Cross Sectional (in <sup>2</sup> ) | PSI   | Max. Load | Break Type |
|--------------|-------------|-----|------|----------------------------|------------------------------------|-------|-----------|------------|
| 09/04/20     | 1A          | 3   | LAB  | 6.00"                      | 28.26"                             | 3,030 | 85,560    | 2          |
| 09/08/20     | 1B          | 7   | LAB  | 6.00"                      | 28.26"                             | 3,870 | 109,250   | 2          |
| 09/08/20     | 1C          | 7   | LAB  | 6.00"                      | 28.26"                             | 4,050 | 114,470   | 2          |
| 09/29/20     | 1D          | 28  | LAB  | 6.00"                      | 28.26"                             | 4,750 | 134,100   | 2          |
| 09/29/20     | 1E          | 28  | LAB  | 6.00"                      | 28.26"                             | 4,780 | 135,160   | 2          |
|              | 1F          |     | HOLD |                            |                                    |       |           |            |
|              | 1G          |     | HOLD |                            |                                    |       |           |            |
|              |             |     |      |                            |                                    |       |           |            |
|              |             |     |      |                            |                                    |       |           |            |



**Type 1**  
Reasonably well-formed cones on both ends, less than 1 in. [25 mm] of cracking through caps



**Type 2**  
Well-formed cone on one end, vertical cracks running through caps, no well-defined cone on other end



**Type 3**  
Columnar vertical cracking through both ends, no well-formed cones



**Type 4**  
Diagonal fracture with no cracking through ends; tap with hammer to distinguish from Type 1



**Type 5**  
Side fractures at top or bottom (occur commonly with unbonded caps)



**Type 6**  
Similar to Type 5 but end of cylinder is pointed

|                                  |                      |                          |                                  |
|----------------------------------|----------------------|--------------------------|----------------------------------|
| <b>Specific Sample Location:</b> | Panels WA-6 and WB-6 |                          |                                  |
| <b>Yards Placed:</b>             | 27.0                 | <b>yards<sup>3</sup></b> | <b>Design Strength:</b> 4000 psi |
| <b>Density:</b>                  |                      |                          |                                  |
| <b>Remarks:</b>                  |                      |                          |                                  |

**Reviewed By:**

Darlene Daniels

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**Concrete Admixtures:** Mix B  
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**Nominal Size of Aggr:** 3/4"  
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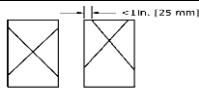
**FIELD TEST RESULTS (Sampled in accordance with ASTM C172)**

| TICKET # | *# CYL | SLUMP TEST (in)<br>(ASTM C143) | AIR CONTENT (%)<br>(ASTM C231) | TEMPERATURE (°F)<br>(ASTM C1064) | ELAPSED TIME |         |             |
|----------|--------|--------------------------------|--------------------------------|----------------------------------|--------------|---------|-------------|
|          |        |                                |                                |                                  | Batch        | Final   | Total (Min) |
| 1008474  | 7      | 6.50"                          | 7.50%                          | 75 °F                            | 7:56 AM      | 9:40 AM | 104         |
|          |        |                                |                                |                                  |              |         |             |
|          |        |                                |                                |                                  |              |         |             |
|          |        |                                |                                |                                  |              |         |             |

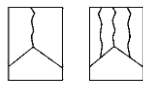
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**LABORATORY COMPRESSIVE STRENGTH TESTING (ASTM C39)**

| Date of Test | Cylinder ID | Age | Cure | Avg Measured Diameter (in) | Cross Sectional (in <sup>2</sup> ) | PSI   | Max. Load | Break Type |
|--------------|-------------|-----|------|----------------------------|------------------------------------|-------|-----------|------------|
| 09/04/20     | 2A          | 3   | LAB  | 6.00"                      | 28.26"                             | 2,810 | 79,410    | 2          |
| 09/08/20     | 2B          | 7   | LAB  | 6.00"                      | 28.26"                             | 3,260 | 92,110    | 2          |
| 09/08/20     | 2C          | 7   | LAB  | 6.00"                      | 28.26"                             | 3,570 | 101,010   | 3          |
| 09/29/20     | 2D          | 28  | LAB  | 6.00"                      | 28.26"                             | 4,400 | 124,300   | 2          |
| 09/29/20     | 2E          | 28  | LAB  | 6.00"                      | 28.26"                             | 4,440 | 125,550   | 2          |
|              | 2F          |     | HOLD |                            |                                    |       |           |            |
|              | 2G          |     | HOLD |                            |                                    |       |           |            |
|              |             |     |      |                            |                                    |       |           |            |
|              |             |     |      |                            |                                    |       |           |            |



**Type 1**  
Reasonably well-formed cones on both ends, less than 1 in. (25 mm) of cracking through caps



**Type 2**  
Well-formed cone on one end, vertical cracks running through caps, no well-defined cone on other end



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Columnar vertical cracking through both ends, no well-formed cones



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Diagonal fracture with no cracking through ends; top with hammer to distinguish from Type 1



**Type 5**  
Side fractures at top or bottom (occur commonly with unbonded caps)



**Type 6**  
Similar to Type 5 but end of cylinder is pointed

|                                  |                      |                          |                                  |
|----------------------------------|----------------------|--------------------------|----------------------------------|
| <b>Specific Sample Location:</b> | Panels WA-6 and WB-6 |                          |                                  |
| <b>Yards Placed:</b>             | 27.0                 | <b>yards<sup>3</sup></b> | <b>Design Strength:</b> 4000 psi |
| <b>Density:</b>                  |                      |                          |                                  |
| <b>Remarks:</b>                  |                      |                          |                                  |

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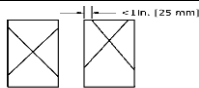
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|----------|--------|--------------------------------|--------------------------------|----------------------------------|--------------|----------|-------------|
|          |        |                                |                                |                                  | Batch        | Final    | Total (Min) |
| 1008477  | 7      | 5.25"                          | 6.50%                          | 80 °F                            | 8:54 AM      | 10:24 AM | 90          |
|          |        |                                |                                |                                  |              |          |             |
|          |        |                                |                                |                                  |              |          |             |
|          |        |                                |                                |                                  |              |          |             |

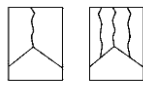
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|--------------|-------------|-----|------|----------------------------|------------------------------------|-------|-----------|------------|
| 09/04/20     | 3A          | 3   | LAB  | 6.00"                      | 28.26"                             | 3,510 | 99,130    | 2          |
| 09/08/20     | 3B          | 7   | LAB  | 6.00"                      | 28.26"                             | 4,050 | 114,320   | 5          |
| 09/08/20     | 3C          | 7   | LAB  | 6.00"                      | 28.26"                             | 4,180 | 118,070   | 2          |
| 09/29/20     | 3D          | 28  | LAB  | 6.00"                      | 28.26"                             | 4,990 | 141,140   | 2          |
| 09/29/20     | 3E          | 28  | LAB  | 6.00"                      | 28.26"                             | 5,020 | 141,740   | 2          |
|              | 3F          |     | HOLD |                            |                                    |       |           |            |
|              | 3G          |     | HOLD |                            |                                    |       |           |            |
|              |             |     |      |                            |                                    |       |           |            |
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