



GEOTECHNICAL ▼ ENVIRONMENTAL ▼ INSPECTIONS ▼ TESTING

REPORT OF CONCRETE FIELD & LABORATORY TESTING

CLIENT: Old Dominion Freight Lines
500 Old Dominion Way
Thomasville, NC. 27360
Attn: Philip Danner

PROJECT: Old Dominion Building Expansion
185 Rand Road
Portland, ME

DATE: October 30, 2014 **REPORT #:** 14-55-00014-025

General Location: South, West and North truck aprons
Field Rep: Matthew Pellerin
Contractor: Pride Concrete Floors
Supplier: Auburn Concrete
Admixtures: Glenium 7500, Micro-Air
Air Temp: 63°F
Weather: Cloudy
Nominal size of Aggr: ¾"

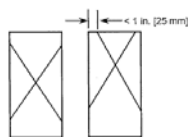
FIELD TEST RESULTS

Ticket #/ #CYL*	ASTM C143 SLUMP TEST	ASTM C231 AIR CONTENT	ASTM C1064 TEMPERATURE °F	ELAPSED TIME Batch : Final Discharge
253680	6.25"	6.7%	72°F	5:52-6:22 / 40 mins
253681	-	-	-	5:59-6:33 / 34 mins
253682	-	-	-	6:07-6:47 / 40 mins
253683 / 6 cyl (A)	5.0"	6.8%	74°F	6:17-6:55 / 38 mins
253684	-	-	-	6:26-7:06 / 40 mins
253685	-	-	-	6:34-7:18 / 44 mins
253686	5.5"	6.8%	74°F	6:41-7:40 / 59 mins
249833	-	-	-	6:42-7:40 / 58 mins
249834	-	-	-	6:47-7:50 / 63 mins

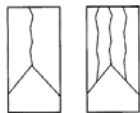
*Specimens molded in accordance with ASTM C31

LABORATORY COMPRESSIVE STRENGTH TESTING ASTM C39

Date of Test	Age	Specimen Area (in ²)	PSI	Break Type
10/05/14	3	12.56 ²	4300	2
10/09/14	7	12.56 ²	4370	2
10/30/14	28	12.56 ²	4970	2
10/30/14	28	12.56 ²	5030	2
10/30/14	28	12.56 ²	5070	2
-	Hold	12.56 ²		



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



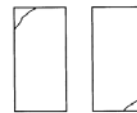
Type 2
Well-formed cone on one end, vertical cracks running through caps, no well-defined cone on other end



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

Specific Sample Location: A: South truck apron in front of bay #27 10' offset from building.
Yards placed: 340.0 yards
Design Strength: 4000 PSI
Remarks:



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Field Rep: Matthew Pellerin
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Supplier: Auburn Concrete
Admixtures: Glenium 7500, Micro-Air
Air Temp: 63°F
Weather: Cloudy
Nominal size of Aggr: 3/4"

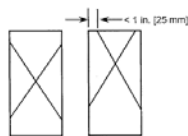
FIELD TEST RESULTS

Ticket #/ #CYL*	ASTM C143 SLUMP TEST	ASTM C231 AIR CONTENT	ASTM C1064 TEMPERATURE °F	ELAPSED TIME Batch : Final Discharge
253687 / 6 cyl (B)	5.75"	7.0%	75°F	6:50-8:00 / 70 mins
249835	-	-	-	6:52-8:13 / 81 mins
253688	-	-	-	6:56-8:22 / 86 mins
253689	6.5"	6.8%	75°F	7:07-8:37 / 90 mins
253690	-	-	-	7:15-8:45 / 90 mins
253691	-	-	-	7:27-8:57 / 90 mins
253692	5.75"	6.9%	76°F	7:38-9:18 / 100 mins
253693	-	-	-	7:51-9:31 / 100 mins
253694	-	-	-	7:59-9:40 / 101 mins

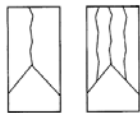
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LABORATORY COMPRESSIVE STRENGTH TESTING ASTM C39

Date of Test	Age	Specimen Area (in ²)	PSI	Break Type
10/05/14	3	12.56 ²	4160	2
10/09/14	7	12.56 ²	4420	2
10/30/14	28	12.56 ²	5070	2
10/30/14	28	12.56 ²	4970	2
10/30/14	28	12.56 ²	5010	2
-	Hold	12.56 ²		



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



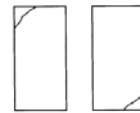
Type 2
Well-formed cone on one
end, vertical cracks running
through caps, no well-
defined cone on other end



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 unbanded caps)



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

Specific Sample Location: B: South truck apron in front of bay #31 40' offset from building.
Yards placed: 340.0 yards
Design Strength: 4000 PSI
Remarks:



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Admixtures: Glenium 7500, Micro-Air
Air Temp: 63°F
Weather: Cloudy
Nominal size of Aggr: ¾"

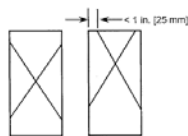
FIELD TEST RESULTS

Ticket #/ #CYL*	ASTM C143 SLUMP TEST	ASTM C231 AIR CONTENT	ASTM C1064 TEMPERATURE °F	ELAPSED TIME Batch : Final Discharge
253695	6.25"	5.5%	75°F	8:09-9:54 / 105 mins
253696	-	-	-	8:18-10:08 / 110 mins
253697	-	-	-	8:35-10:15 / 90 mins
249841 / 6 cyl (C)	5.0"	5.7%	76°F	8:41-10:31 / 110 mins
249842	-	-	-	8:50-10:43 / 113 mins
253698	-	-	-	8:58-10:48 / 110 mins
253699	5.75"	6.2%	75°F	9:08-11:00 / 112 mins
253700	-	-	-	9:23-11:09 / 106 mins

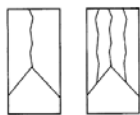
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LABORATORY COMPRESSIVE STRENGTH TESTING ASTM C39

Date of Test	Age	Specimen Area (in ²)	PSI	Break Type
10/05/14	3	12.56 ²	3930	2
10/09/14	7	12.56 ²	3970	2
10/30/14	28	12.56 ²	4800	2
10/30/14	28	12.56 ²	4730	2
10/30/14	28	12.56 ²	4710	2
-	Hold	12.56 ²		



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cracking through caps



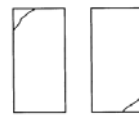
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Type 3
Columnar vertical cracking
through both ends, no well-
formed cones



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 unbarred caps)



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

Specific Sample Location: C: North truck apron in front of bay #16 8' offset from building.
Yards placed: 340.0 yards
Design Strength: 4000 PSI
Remarks:



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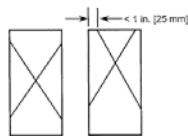
FIELD TEST RESULTS

Ticket #/ #CYL*	ASTM C143 SLUMP TEST	ASTM C231 AIR CONTENT	ASTM C1064 TEMPERATURE °F	ELAPSED TIME Batch : Final Discharge
253701	-	-	-	9:35-11:18 / 103 mins
253702	5.25"	6.1%	76°F	9:43-11:30 / 107 mins
253703	-	-	-	9:53-11:35 / 102 mins
253704	-	-	-	10:02-11:41 / 99 mins
253707 / 6 cyl (D)	5.5"	5.3%	76°F	10:10-12:05 / 115 mins
253708	-	-	-	10:44-12:20 / 96 mins
253709	-	-	-	11:01-12:31 / 90 mins
253710	7.0"	5.4%	74°F	11:11-12:35 / 84 mins

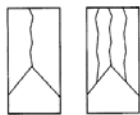
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LABORATORY COMPRESSIVE STRENGTH TESTING ASTM C39

Date of Test	Age	Specimen Area (in ²)	PSI	Break Type
10/05/14	3	12.56 ²	4180	2
10/09/14	7	12.56 ²	4200	2
10/30/14	28	12.56 ²	4960	2
10/30/14	28	12.56 ²	5040	2
10/30/14	28	12.56 ²	5090	2
-	Hold	12.56 ²		



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



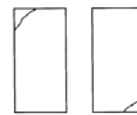
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Type 3
Columnar vertical cracking through both ends, no well-formed cones



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

Specific Sample Location: D: North truck apron in front of bay #12 38' offset from building.
Yards placed: 340.0 yards
Design Strength: 4000 PSI
Remarks: