

**R. W. Gillespie & Associates, Inc.**

86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008  
200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244

**LETTER OF TRANSMITTAL**

City of Portland, Portland Int. Jetport

1001 Westbrook Street

Portland, Maine 04102

Date:	30 Nov 2010	Project No.:	557-14
Attention:	Mr. Cuyler Feagles (cmf@portlandmaine.gov)		
Re:	Concrete Testing Terminal Enhancement, Portland Int. Jetport Portland, Maine		

We are sending you attached concrete cylinder test results.

Cylinder No. (s)	Age (Days)
67674	28
67675	28
67678	28
67679	28
67682	28
67683	28

Remarks:

Copy To:

Roy Williams: rsw@portlandmaine.gov  
Jim Stanislaski: jim\_stanislaski@gensler.com  
Cliff Takara: clifford\_takara@gensler.com  
Lacey Fogg: Lacey.Fogg@amec.com  
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Remi Delcourt (remi@auburnconcrete.com)  
Jeff Evans, Amec (jeff.evans@amec.com)

Signed: Bertha Dawn

If enclosures are not as noted, kindly notify us at once.

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## CONCRETE TEST/PLACEMENT REPORT

<b>Project Name:</b>	Terminal Enhancement, Portland Int. Jetport	<b>Date Cylinders Cast:</b>	02-Nov-10
<b>Project No:</b>	557-14	<b>Concrete Supplier:</b>	Auburn
<b>Weather Conditions:</b>	Cloudy	<b>General Contractor:</b>	Turner
<b>Method of Placement:</b>	Pump	<b>Design Strength:</b>	3,500
<b>Admixtures:</b>	Mid Range Water Reducer, 2% Pozzutec 20+	<b>Max Agg. Size:</b>	3/8
<b>Placement Location:</b>	Slab-On-Deck 4-8		
<b>Test Cylinder Location:</b>	See attached sketch		

**Date Report Issued:**

4x8 Cylinders	4	Cast by	Michael J. Kramlich		Time
Load No.	2	Slump (in) ASTM C 143	4		Batched @ 8:55
Ticket No.	180250	Air (°F)	38		Arrived @ 9:10
Truck No.	115	Concrete (°F) ASTM C 1064	57		Total Time 25
Cubic Yds.	10	Air Content (%) ASTM C 231	4		

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1  
 Date received 03-Nov-10  
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67673	09-Nov-10	4.009	12.62	7	52,760	4180	5
67674	30-Nov-10	4.009	12.62	28	65,700	5210	2
67675	30-Nov-10	4.009	12.62	28	68,540	5430	2
67676	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

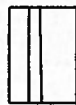
### Types of Breaks



Cone  
1



Cone & Split  
2



Columnar  
3



Shear  
4



Side Fracture  
5



Double Side Fracture  
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
1	180249	95	--	--	--	--	--	40
3	180251	95	10	--	--	--	--	30
4	180252	99	10	--	--	--	--	40
5	180253	84	10	--	--	--	--	50

Remarks: Total Loads: 15  
 Unit Weight: 124.8  
 Curing Temps: Max 66°, Min 52°

Checked by:   
 Matthew T. Grady, Manager of MTS

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## CONCRETE TEST/PLACEMENT REPORT

<b>Project Name:</b>	Terminal Enhancement, Portland Int. Jetport	<b>Date Cylinders Cast:</b>	02-Nov-10
<b>Project No:</b>	557-14	<b>Concrete Supplier:</b>	Auburn
<b>Weather Conditions:</b>	Cloudy	<b>General Contractor:</b>	Turner
<b>Method of Placement:</b>	Pump	<b>Design Strength:</b>	3,500
<b>Admixtures:</b>	Mid Range Water Reducer, 2% Pozzutec 20+	<b>Max Agg. Size:</b>	3/8
<b>Placement Location:</b>	Slab-On-Deck 4-8		
<b>Test Cylinder Location:</b>	See attached sketch		

**Date Report Issued:**

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time
Load No.	6	Slump (in) ASTM C 143	6	Batched @
Ticket No.	180254	Air (°F)	43	Arrived @
Truck No.	96	Concrete (°F) ASTM C 1064	56	Total Time
Cubic Yds.	10	Air Content (%) ASTM C 231	3.25	9:41
				10:05
				40

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1  
Date received 03-Nov-10  
Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67677	09-Nov-10	4.009	12.62	7	52,760	4180	5
67678	30-Nov-10	4.009	12.62	28	64,160	5080	5
67679	30-Nov-10	4.009	12.62	28	65,720	5210	5
67680	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

### Types of Breaks



Cone  
1



Cone & Split  
2



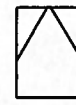
Columnar  
3



Shear  
4



Side Fracture  
5



Double Side Fracture  
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
8	180257	95	10	--	--	--	--	80
9	180258	99	10	--	--	--	--	75
10	180259	115	10	--	--	--	--	35
11	180260	95	10	--	--	--	--	35

Remarks: Total Loads: 15  
Unit Weight: 122.2 PCF  
Curing Temps: Max 66°, Min 52°

Checked by: Matthew T. Grady  
Matthew T. Grady, Manager of MTS

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## CONCRETE TEST/PLACEMENT REPORT

<b>Project Name:</b>	Terminal Enhancement, Portland Int. Jetport	<b>Date Cylinders Cast:</b>	02-Nov-10
<b>Project No:</b>	557-14	<b>Concrete Supplier:</b>	Auburn
<b>Weather Conditions:</b>	Cloudy	<b>General Contractor:</b>	Turner
<b>Method of Placement:</b>	Pump	<b>Design Strength:</b>	3,500
<b>Admixtures:</b>	Mid Range Water Reducer, 2% Pozzutec 20+	<b>Max Agg. Size:</b>	3/8
<b>Placement Location:</b>	Slab-On-Deck 4-8		
<b>Test Cylinder Location:</b>	See attached sketch		

**Date Report Issued:**

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time		
Load No.	12	Slump (in) ASTM C 143	6		Batched @	11:45
Ticket No.	180261	Air (°F)	43		Arrived @	12:00
Truck No.	99	Concrete (°F) ASTM C 1064	57		Total Time	35
Cubic Yds.	10	Air Content (%) ASTM C 231	3.75			

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1  
 Date received 03-Nov-10  
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67681	09-Nov-10	4.009	12.62	7	50,420	4000	5
67682	30-Nov-10	4.009	12.62	28	59,820	4740	2
67683	30-Nov-10	4.009	12.62	28	59,980	4750	2
67684	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

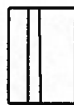
### Types of Breaks



Cone  
1



Cone & Split  
2



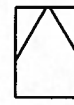
Columnar  
3



Shear  
4



Side Fracture  
5

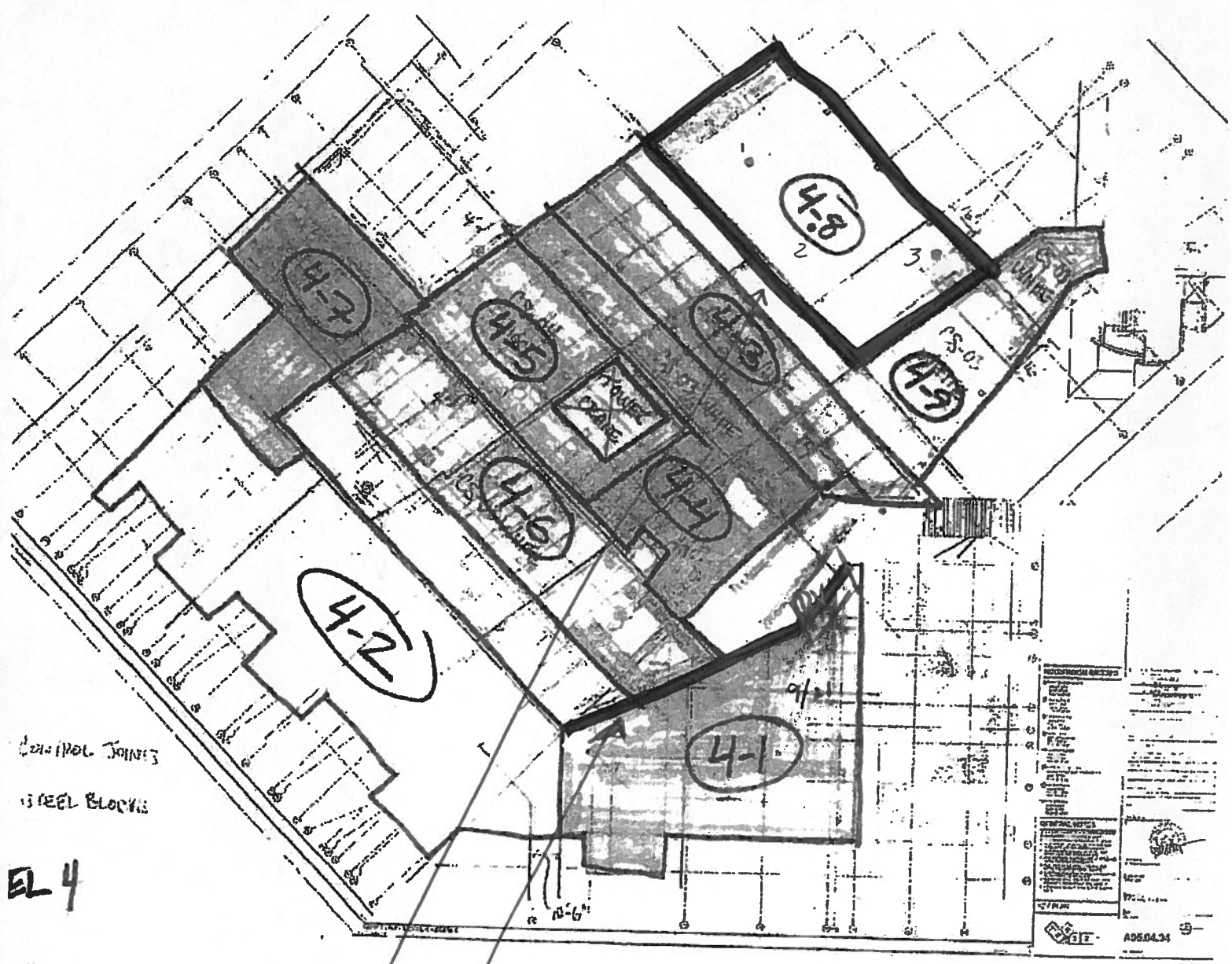


Double Side Fracture  
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
13	180262	98	10	--	--	--	--	40
14	180264	115	6	--	--	--	--	40
15	180265	95	5	--	--	--	--	50

**Remarks:** Total Loads: 15  
 Unit Weight: 124.0 PCF  
 Curing Temps: Max 66°, Min 52°

Checked by: Matthew T. Grady  
 Matthew T. Grady, Manager of MTS



CONCRETE JOINTS  
 STEEL BLOCKS

EL 4

140 yds LIGHTWEIGHT  
 SLAB 4-8  
 35 yds NORMAL WEIGHT  
 PARAPET WALLS

PORTLAND INT'L AIRPORT  
 TERMINAL EXPANSION  
 557-14  
 11/2/2010  
 MSK

NO.	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE JOINTS		
2	STEEL BLOCKS		
3	...		
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