

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:	2 November 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)
67388	28
67389	28
67394	28
67395	28
67400	28
67401	28
67406	28
67407	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  
 Mike Fusco: mfusco@tcco.com  
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 ldobson@portlandmaine.gov  
 rdixon@tcco.com  
 gemitchell@tcco.com  
 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**

**Project Name:** Terminal Enhancement, Portland Int. Jetport  
**Project No:** 557-14  
**Weather Conditions:** Cloudy  
**Method of Placement:** Pump  
**Admixtures:** Mid Range Water Reducer  
**Placement Location:** Slab on Deck (Slab 3-2 white)  
**Test Cylinder Location:** See attached sketch

**Date Cylinders Cast:** 05-Oct-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 3,500  
**Max Agg. Size:** 3/8

**Date Report Issued:** **NOV 03 2010**

4x8 Cylinders	6	Cast by	Michael J. Kramlich	Time	
Load No.	2	Slump (in) ASTM C 143	5	Batched @	7:02
Ticket No.	177458	Air (°F)	55	Arrived @	7:25
Truck No.	86	Concrete (°F) ASTM C 1064	64	Total Time	45
Cubic Yds.	10	Air Content (%) ASTM C 231	2.5		

\*Concrete sampled by ASTM C 172

**Specimen Storage ASTM C 31: Field cure days: 1**  
 Date received 06-Oct-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
67386	08-Oct-10	4.016	12.67	3	38,160	3010	5
67387	12-Oct-10	4.015	12.66	7	53,860	4250	5
67388	02-Nov-10	4.016	12.67	28	65,680	5180	5
67389	02-Nov-10	4.016	12.67	28	67,960	5360	5
67390	HOLD			HOLD			
67391	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	177456	76	10	--	--	--	--	35
3	177460	106	10	--	--	--	--	--
4	177462	81	10	--	--	--	--	--
5	177465	82	10	--	--	--	--	--
6	177467	76	10	9.50	--	--	--	35

**Remarks:** 18 Total Loads, Unit Weight = 123.0 pcf  
 Curing Temperatures: Max = 77°, Min = 61°  
 Load 6 rejected after first 3 yds due to excessive slump. In-place concrete mixed with next batch.

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

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**Project No:** 557-14  
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**Method of Placement:** Pump  
**Admixtures:** Mid Range Water Reducer  
**Placement Location:** Slab on Deck (Slab 3-2 white)  
**Test Cylinder Location:** See attached sketch

**Date Cylinders Cast:** 05-Oct-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 3,500  
**Max Agg. Size:** 3/8

NOV 03 2010

**Date Report Issued:**

4x8 Cylinders	6	Cast by	Michael J. Kramlich	Time	
Load No.	7	Slump (in) ASTM C 143	6.75	Batched @	8:44
Ticket No.	177472	Air (°F)	55	Arrived @	--
Truck No.	81	Concrete (°F) ASTM C 1064	65	Total Time	--
Cubic Yds.	10	Air Content (%) ASTM C 231	3		

\*Concrete sampled by ASTM C 172

**Specimen Storage ASTM C 31: Field cure days: 1**  
 Date received 06-Oct-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
67392	08-Oct-10	4.016	12.67	3	42,940	3390	5
67393	12-Oct-10	4.015	12.66	7	51,480	4070	5
67394	02-Nov-10	4.016	12.67	28	67,280	5310	2
67395	02-Nov-10	4.016	12.67	28	68,200	5380	2
67396	HOLD			HOLD			
67397	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	177473	82	10	--	--	--	--	--
9	177474	116	10	--	--	--	--	--
10	177476	76	10	--	--	--	--	--
11	177478	117	10	--	--	--	--	--

**Remarks:** 18 Total Loads, Unit weight = 124.6 pcf  
 Curing Temperatures: Max = 77°, Min = 61°

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

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**Method of Placement:** Pump  
**Admixtures:** Mid Range Water Reducer  
**Placement Location:** Slab on Deck (Slab 3-2 white)  
**Test Cylinder Location:** See attached sketch

**Date Cylinders Cast:** 05-Oct-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 3,500  
**Max Agg. Size:** 3/8

**Date Report Issued:** NOV 03 2010

4x8 Cylinders	6	Cast by	Michael J. Kramlich	Time	
Load No.	12	Slump (in) ASTM C 143	7.5	Batched @	9:45
Ticket No.	177479	Air (°F)	60	Arrived @	--
Truck No.	84	Concrete (°F) ASTM C 1064	64	Total Time	--
Cubic Yds.	10	Air Content (%) ASTM C 231	3.5		

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1  
 Date received 06-Oct-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
67398	08-Oct-10	4.016	12.67	3	43,380	3420	5
67399	12-Oct-10	4.015	12.66	7	54,700	4320	5
67400	02-Nov-10	4.016	12.67	28	71,380	5630	2
67401	02-Nov-10	4.016	12.67	28	74,100	5850	2
67402	HOLD			HOLD			
67403	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	177481	97	10	--	--	--	--	--
14	177483	82	10	--	--	--	--	--
15	177485	76	10	--	--	--	--	--
16	177487	117	10	--	--	--	--	--

Remarks: 18 Total Loads, Unit weight 125.0 pcf  
 Curing Temperatures: Max = 77°, Min = 61°

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

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**Test Cylinder Location:** See attached sketch

**Date Cylinders Cast:** 05-Oct-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 3,500  
**Max Agg. Size:** 3/8

**NOV 03 2010**

**Date Report Issued:**

4x8 Cylinders	6	Cast by	Michael J. Kramlich	Time	
Load No.	17	Slump (in) ASTM C 143	4	Batched @	11:05
Ticket No.	177489	Air (°F)	60	Arrived @	--
Truck No.	81	Concrete (°F) ASTM C 1064	67	Total Time	--
Cubic Yds.	10	Air Content (%) ASTM C 231	3.25		

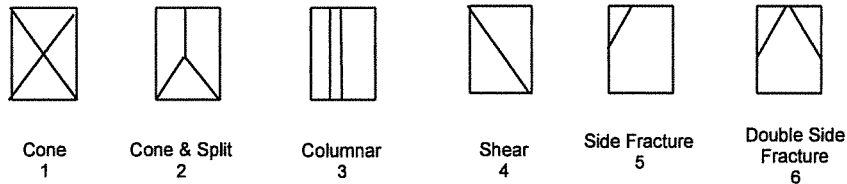
\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1  
 Date received 06-Oct-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
67404	08-Oct-10	4.016	12.67	3	46,580	3680	5
67405	12-Oct-10	4.015	12.66	7	53,860	4250	5
67406	02-Nov-10	4.016	12.67	28	68,960	5440	2
67407	02-Nov-10	4.016	12.67	28	68,140	5380	2
67408	HOLD			HOLD			
67409	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

**Types of Breaks**



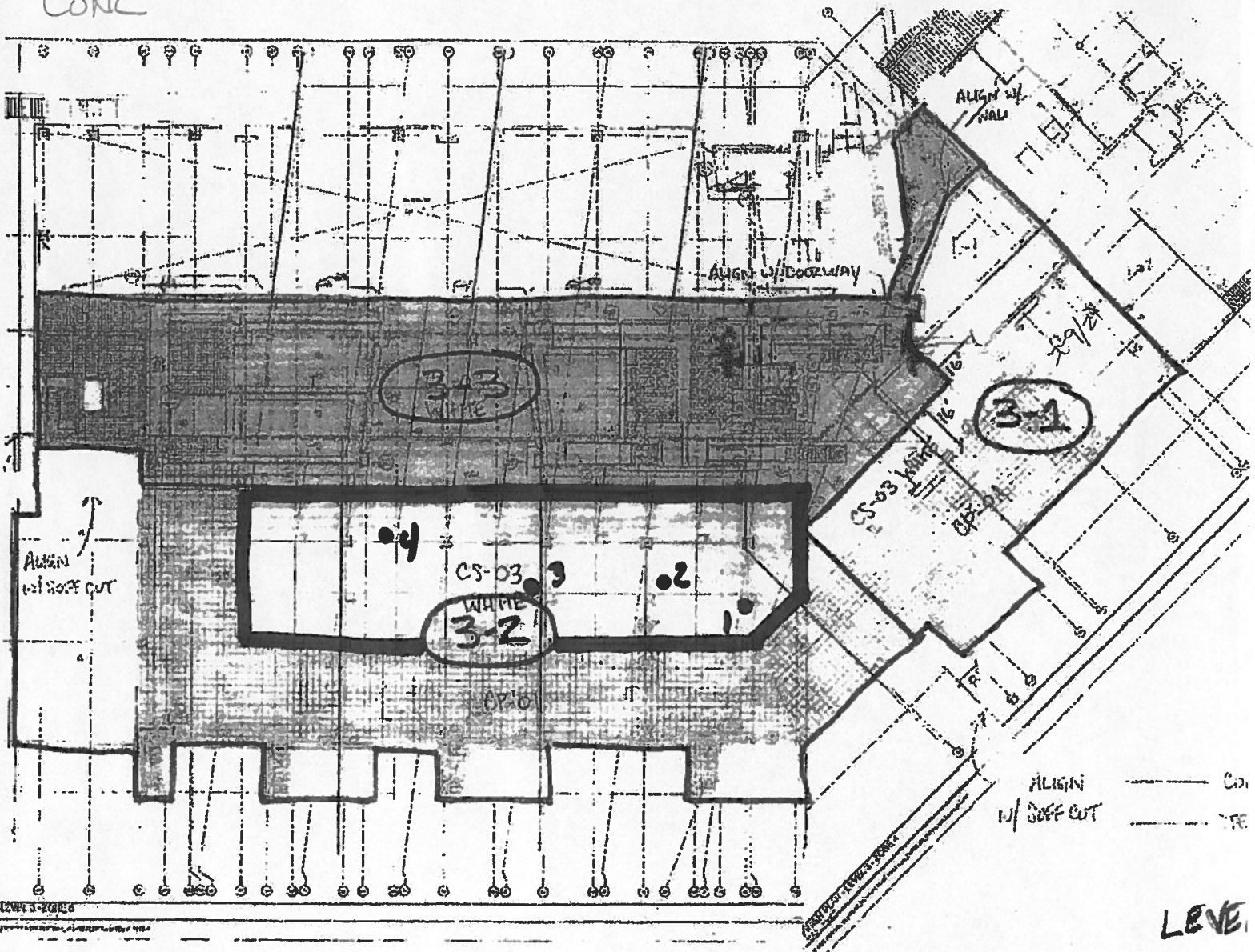
Cone 1      Cone & Split 2      Columnar 3      Shear 4      Side Fracture 5      Double Side Fracture 6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
18	177493	76	10	--	--	--	--	--

Remarks: 18 Total Loads, Unit weight 125.6 pcf  
 Curing Temperatures: Max = 77°, Min = 61°

Checked by: Jon Channing  
 FOR Matthew T. Grady, Manager of MTS

CONC



PORTLAND INT'L AIRPORT 3  
TERMINAL EXPANSION  
SS7-14  
10/5/10  
MSK