

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:	October 27, 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)
67279	28
67280	28
67283	28
67284	28
67287	28
67288	28
67291	28
67292	28
67295	28
67296	28
67299	28
67300	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  
 Shaun Winner: swinner@tcco.com  
 Phil Coleman: pcoleman@tcco.com  
 Elizabeth O'Toole: eotoole@tcco.com  
 TMM@portlandmaine.gov  
 ldobson@portlandmaine.gov  
 rdixon@tcco.com  
 gemitchell@tcco.com  
 Remi Delcourt (remi@auburnconcrete.com)  
 □□□□ □□□□, □□□□ (□□□□.□□□□□□@□□□□.□□□□)

Signed: Bertha Dawn

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## CONCRETE TEST/PLACEMENT REPORT

**Project Name:** Terminal Enhancement, Portland Int. Jetport  
**Project No:** 557-14  
**Weather Conditions:** Sunny  
**Method of Placement:** Pump  
**Admixtures:** Mid Range Water Reducer  
**Placement Location:** Roof Deck (Slab on deck) 4-2  
**Test Cylinder Location:** See attached sketch

**Date Cylinders Cast:** 29-Sep-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 3,500  
**Max Agg. Size:** 3/8

**Date Report Issued:** OCT 29 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich			
Load No.	3	Slump (in) ASTM C 143	8.25	Time	Batched @	7:18
Ticket No.	180917	Air (°F)	70		Arrived @	7:40
Truck No.	82	Concrete (°F) ASTM C 1064	74		Total Time	45±
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 30-Sep-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
67278	06-Oct-10	4.024	12.72	7	41,820	3290	2
67279	27-Oct-10	4.014	12.65	28	47,980	3790	2
67280	27-Oct-10	4.014	12.65	28	50,300	3980	2
67281	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

### Types of Breaks



Cone  
1



Cone & Split  
2



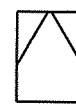
Columnar  
3



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	180914	99	10	--	--	--	--	--
2	180916	76	10	--	--	--	--	--
4	180918	97	10	--	--	--	--	--
5	180919	99	10	--	--	--	--	--

Remarks: 23 Total Loads, Unit Weight = 123.0 pcf

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

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## CONCRETE TEST/PLACEMENT REPORT

**Project Name:** Terminal Enhancement, Portland Int. Jetport  
**Project No:** 557-14  
**Weather Conditions:** Sunny  
**Method of Placement:** Pump  
**Admixtures:** Mid Range Water Reducer  
**Placement Location:** Roof Deck (Slab on deck) 4-2  
**Test Cylinder Location:** See attached sketch

**Date Cylinders Cast:** 29-Sep-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 3,500  
**Max Agg. Size:** 3/8

**Date Report Issued:** **OCT 29 2010**

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	6	Slump (in) ASTM C 143	7.25	Batched @	8:26
Ticket No.	180921	Air (°F)	70	Arrived @	8:45
Truck No.	115	Concrete (°F) ASTM C 1064	72	Total Time	40±
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 30-Sep-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
67282	06-Oct-10	4.024	12.72	7	41,160	3240	5
67283	27-Oct-10	4.014	12.65	28	52,220	4130	2
67284	27-Oct-10	4.014	12.65	28	51,380	4060	5
67285	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

### Types of Breaks



Cone  
1



Cone & Split  
2



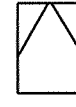
Columnar  
3



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.)
7	180922	76	10	--	--	--	--	--
8	180923	82	10	--	--	--	--	--
9	180924	97	10	--	--	--	--	--
10	180926	94	10	--	--	--	--	--

Remarks: 23 Total Loads, Unit Weight = 122.0 pcf

Checked by: Don Channing  
 For Matthew T. Grady, Manager of MTS

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## CONCRETE TEST/PLACEMENT REPORT

**Project Name:** Terminal Enhancement, Portland Int. Jetport  
**Project No:** 557-14  
**Weather Conditions:** Sunny  
**Method of Placement:** Pump  
**Admixtures:** Mid Range Water Reducer  
**Placement Location:** Roof Deck (Slab on deck) 4-2  
**Test Cylinder Location:** See attached sketch

**Date Cylinders Cast:** 29-Sep-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 3,500  
**Max Agg. Size:** 3/8

**Date Report Issued:** OCT 29 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	11	Slump (in) ASTM C 143	7	Batched @	9:09
Ticket No.	180927	Air (°F)	70	Arrived @	9:30
Truck No.	106	Concrete (°F) ASTM C 1064	70	Total Time	45±
Cubic Yds.	10	Air Content (%) ASTM C 231	2.75		

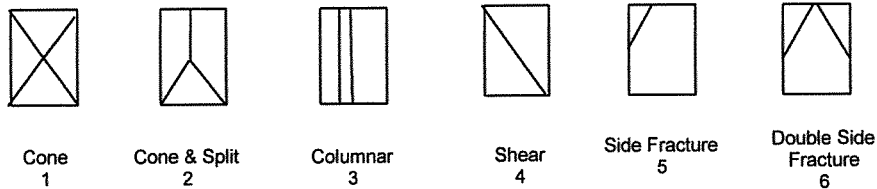
\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1  
 Date received 30-Sep-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
67286	06-Oct-10	4.024	12.72	7	46,820	3680	5
67287	27-Oct-10	4.014	12.65	28	54,100	4280	5
67288	27-Oct-10	4.014	12.65	28	52,380	4140	5
67289	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

### Types of Breaks



Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
12	180928	78	10	--	--	--	--	--
13	180929	76	10	--	--	--	--	--
14	180930	82	10	--	--	--	--	--
15	180931	97	10	--	--	--	--	--

Remarks: 23 Total Loads, Unit Weight = 122.0 pcf

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

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## CONCRETE TEST/PLACEMENT REPORT

**Project Name:** Terminal Enhancement, Portland Int. Jetport  
**Project No:** 557-14  
**Weather Conditions:** Sunny  
**Method of Placement:** Pump  
**Admixtures:** Mid Range Water Reducer  
**Placement Location:** Roof Deck (Slab on deck) 4-2  
**Test Cylinder Location:** See attached sketch

**Date Cylinders Cast:** 29-Sep-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 3,500  
**Max Agg. Size:** 3/8

**Date Report Issued:** **OCT 29 2010**

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	16	Slump (in) ASTM C 143	7.5	Batched @	10:00
Ticket No.	180932	Air (°F)	72	Arrived @	10:25
Truck No.	94	Concrete (°F) ASTM C 1064	74	Total Time	35±
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 30-Sep-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
67290	06-Oct-10	4.024	12.72	7	42,720	3360	2
67291	27-Oct-10	4.014	12.65	28	51,440	4070	2
67292	27-Oct-10	4.014	12.65	28	48,760	3850	2
67293	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

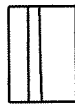
### Types of Breaks



Cone  
1



Cone & Split  
2



Columnar  
3



Shear  
4



Side Fracture  
5



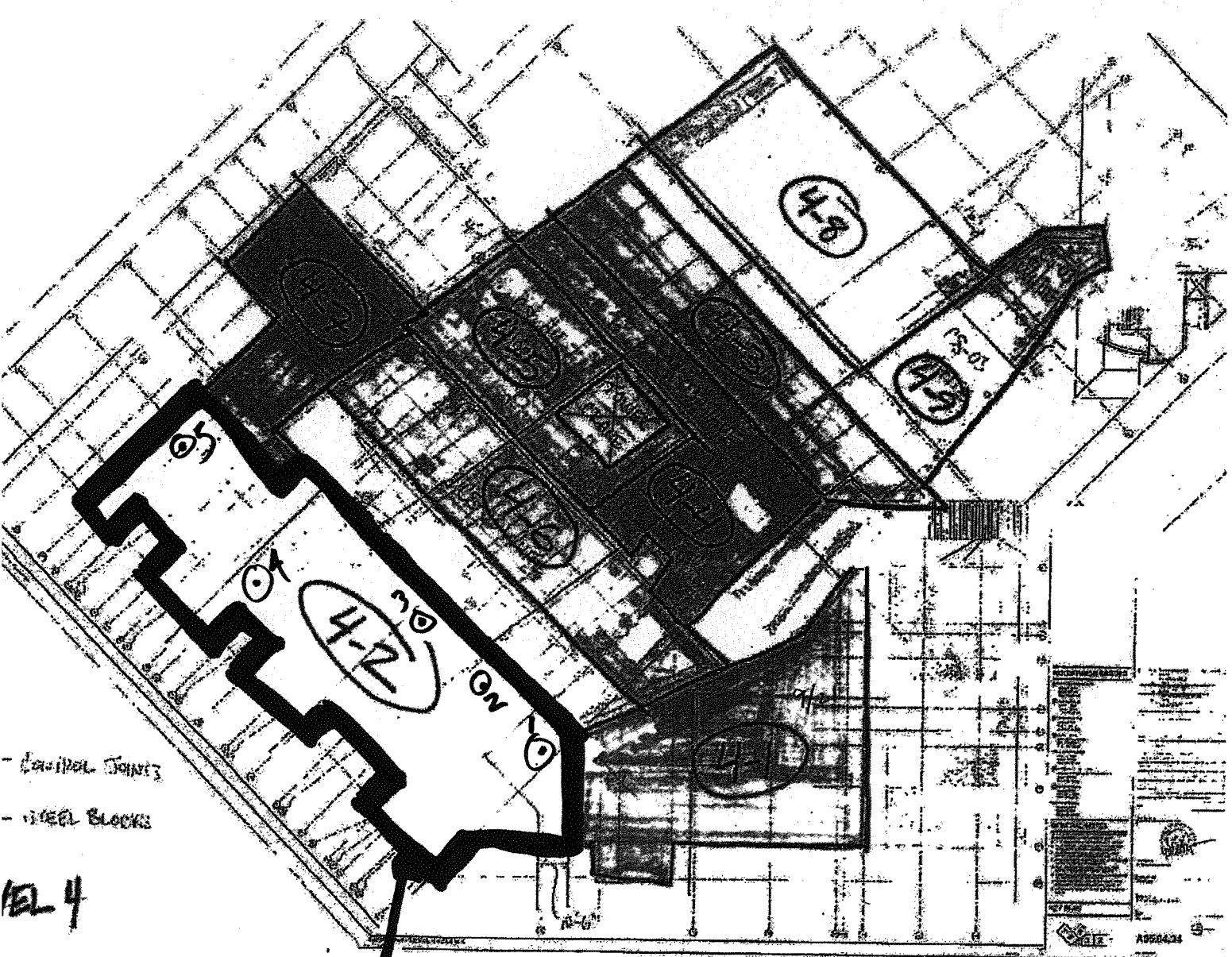
Double Side Fracture  
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
17	180933	106	10	--	--	--	--	--
18	180934	78	10	--	--	--	--	--
19	180936	76	10	--	--	--	--	--
20	180939	82	10	--	--	--	--	--
21	--	--	10	--	--	--	--	--
22	180942	98	10	--	--	--	--	--

Remarks: 23 Total Loads, Unit Weight = 122.4 pcf

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





- CONCRETE JOINTS
- WHEEL BLOCKS

REL 4

SLAB ON DECK  
227 yds. LIGHTWEIGHT, GRAY

⊙<sup>S</sup> SAMPLE LOCATION

PORTLAND INT'L AIRPORT  
TERMINAL EXPANSION  
557-14  
MSK  
9-29-10

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**CONCRETE TEST/PLACEMENT REPORT**

<b>Project Name:</b>	Terminal Enhancement, Portland Int. Jetport	<b>Date Cylinders Cast:</b>	29-Sep-10
<b>Project No:</b>	557-14	<b>Concrete Supplier:</b>	Auburn
<b>Weather Conditions:</b>	Sunny	<b>General Contractor:</b>	Turner
<b>Method of Placement:</b>	Rear discharge	<b>Design Strength:</b>	4,000
<b>Admixtures:</b>	Mid Range Water Reducer	<b>Max Agg. Size:</b>	3/4
<b>Placement Location:</b>	XM - XM.5 / YO.5 - Y1.5, Y3 - Y4, Y4.8 - Y5.8, Y6.8 - Y7		
<b>Test Cylinder Location:</b>	XM - XM.5 / YO.5 - Y1.5 AND Y3.5 - Y4		

**Date Report Issued:** **OCT 28 2010**

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	2	Slump (in) ASTM C 143	5	Batched @	1:21
Ticket No.	177305	Air (°F)	76	Arrived @	1:45
Truck No.	76	Concrete (°F) ASTM C 1064	72	Total Time	50±
Cubic Yds.	10	Air Content (%) ASTM C 231	2.9		

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1  
 Date received 30-Sep-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
67298	06-Oct-10	4.024	12.72	7	41,200	3240	2
67299	27-Oct-10	4.014	12.65	28	69,600	5500	2
67300	27-Oct-10	4.014	12.65	28	67,540	5340	2
67301	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	--	--	10	--	--	--	--	--
3	177308	94	10	--	--	--	--	--
4	177311	82	10	--	--	--	--	70±

Remarks:

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