

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:	July 28, 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)
66358	7
66362	7

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

Signed: Bertha Dawn

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## CONCRETE TEST/PLACEMENT REPORT

<b>Project Name:</b>	Terminal Enhancement, Portland Int. Jetport	<b>Date Cylinders Cast:</b>	21-Jul-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>	Pump	<b>Design Strength:</b>	4,000
<b>Admixtures:</b>	Micro Air, Glenium 7500, Pozzolith 100XR	<b>Max Agg. Size:</b>	3/4
<b>Placement Location:</b>	Piers, Foundation Walls, & Footings - See Attached Sketch		
<b>Test Cylinder Location:</b>	Pier: XJ/Y8		

**Date Report Issued:** JUL 30 2010

4x8 Cylinders	4	Cast by	Rodney R. Collard	Time	
Load No.	1	Slump (in) ASTM C 143	4.0	Batched @	12:07
Ticket No.	167554	Air (°F)	85	Arrived @	12:30
Truck No.	99	Concrete (°F) ASTM C 1064	76	Total Time	53
Cubic Yds.	10	Air Content (%) ASTM C 231	5.1		

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1  
 Date received 22-Jul-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
66358	28-Jul-10	4.019	12.69	7	49,260	3880	2
66359	18-Aug-10			28			
66360	18-Aug-10			28			
66361	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

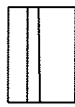
### Types of Breaks



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.)
2	167556	118	10	--	--	--	--	45
3	167557	78	10	--	--	--	--	37
4	167559	102	10	--	--	79	--	30
5	167561	99	10	--	--	--	--	25

Remarks: Total loads = 8

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>	21-Jul-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>	Pump	<b>Design Strength:</b>	4,000
<b>Admixtures:</b>	Micro Air, Glenium 7500, Pozzoloth 100XR	<b>Max Agg. Size:</b>	3/4
<b>Placement Location:</b>	Spread Footings: XH/Y7, XH/Y7.5, XH/Y6.5, XH.5/Y7.5		
<b>Test Cylinder Location:</b>	Footings: XH/Y7		

**Date Report Issued:** JUL 30 2010

4x8 Cylinders	4	Cast by	Rodney R. Collard	Time
Load No.	6	Slump (in) ASTM C 143	5.75	Batched @
Ticket No.	167563	Air (°F)	86	Arrived @
Truck No.	78	Concrete (°F) ASTM C 1064	78	Total Time
Cubic Yds.	10	Air Content (%) ASTM C 231	5.1	35

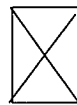
\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1  
 Date received 22-Jul-10  
 Condition of Cylinders: Good

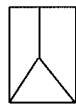
Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
66362	28-Jul-10	4.019	12.69	7	41,000	3230	3
66363	18-Aug-10			28			
66364	18-Aug-10			28			
66365	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

### Types of Breaks



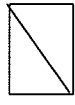
Cone  
1



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	167564	102	6	--	--	--	--	40
8	167565	77	6	--	--	--	--	30

Remarks: Total loads = 8

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

PORTLAND JETPORT 557-14 7/21/10 RODNEY COLLARD

Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

2010 License No.  
Professional Engineer  
Maine 0012880

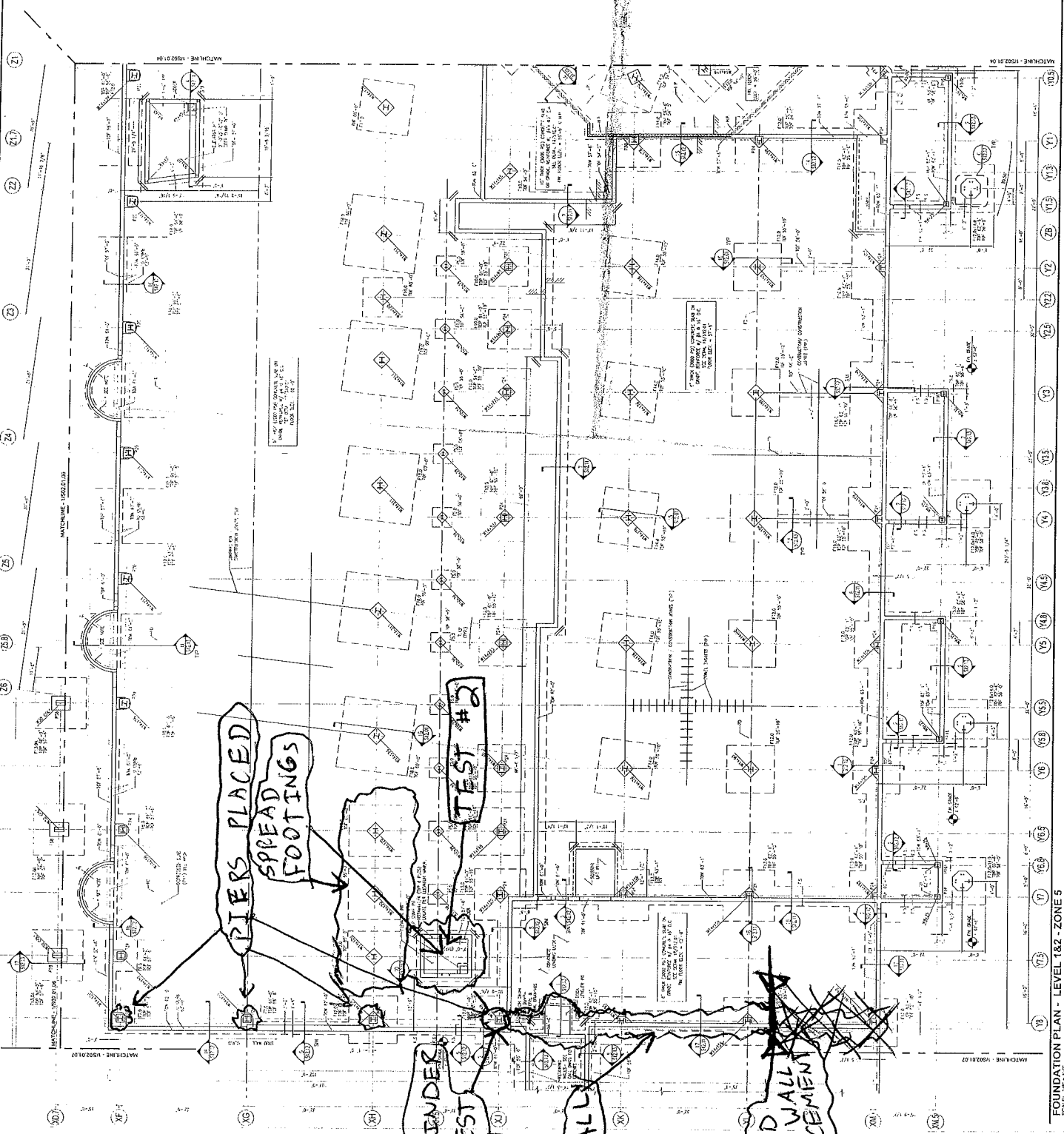
**Gensler**

**OES** ASSOCIATES, INC.  
1000 Commercial Street  
Portland, Maine 04102

- SHEET NOTES**
- 1. REFER TO SHEET 182-01A FOR THE GENERAL NOTES AND SPECIFICATIONS.
  - 2. REFER TO SHEET 182-01B FOR THE GENERAL NOTES AND SPECIFICATIONS.
  - 3. REFER TO SHEET 182-01C FOR THE GENERAL NOTES AND SPECIFICATIONS.
  - 4. REFER TO SHEET 182-01D FOR THE GENERAL NOTES AND SPECIFICATIONS.
  - 5. REFER TO SHEET 182-01E FOR THE GENERAL NOTES AND SPECIFICATIONS.
  - 6. REFER TO SHEET 182-01F FOR THE GENERAL NOTES AND SPECIFICATIONS.
  - 7. REFER TO SHEET 182-01G FOR THE GENERAL NOTES AND SPECIFICATIONS.
  - 8. REFER TO SHEET 182-01H FOR THE GENERAL NOTES AND SPECIFICATIONS.
  - 9. REFER TO SHEET 182-01I FOR THE GENERAL NOTES AND SPECIFICATIONS.
  - 10. REFER TO SHEET 182-01J FOR THE GENERAL NOTES AND SPECIFICATIONS.

- GENERAL NOTES**
- 1. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL BUILDING CODE (IBC) AND THE 2009 INTERNATIONAL FOUNDATION CODE (IFC).
  - 2. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL GEOTECHNICAL CODE (IGC).
  - 3. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL SOILS AND FOUNDATIONS CODE (ISFC).
  - 4. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL CONCRETE CODE (ICC).
  - 5. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL STEEL CODE (ISC).
  - 6. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL WOOD CODE (IWC).
  - 7. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL MASONRY CODE (IMC).
  - 8. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL PLASTER AND STUCCO CODE (IPSC).
  - 9. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL PAINT AND COATINGS CODE (IPCC).
  - 10. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL GLASS AND GLAZING CODE (IGGC).
  - 11. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL MECHANICAL AND ELECTRICAL CODE (IMEC).
  - 12. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL PLUMBING AND HEATING CODE (IPLHC).
  - 13. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL FIRE AND LIFE SAFETY CODE (IFLSC).
  - 14. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL SAFETY CODE (ISFC).
  - 15. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL ACCESSIBILITY CODE (IAC).
  - 16. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL SUSTAINABLE DESIGN AND CONSTRUCTION CODE (ISDCC).
  - 17. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL ENERGY EFFICIENCY CODE (IEEC).
  - 18. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL GREEN BUILDING CODE (IGBC).
  - 19. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL LEED CODE (ILEED).
  - 20. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL WELL-BEING AND PRODUCTIVITY CODE (IWPC).

Scale: 1/8" = 1'-0"  
Date: 7/21/10  
S02.01.05



**KEY PLAN**

1 2 3 4 5 6

FOUNDATION PLAN - LEVEL 1&2 - ZONE 5  
SCALE: 1/8" = 1'-0"