

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:	10 February 2011	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)
68053	28
68054	28
68057	28
68058	28
68061	28
68062	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)
Jeff Evans, Amec (jeff.evans@amec.com)

Signed: Bertha Dawn

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

R.W. GILLESPIE & ASSOCIATES

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CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement at the Portland Jetport	Date Cylinders Cast:	13-Jan-11
Project No:	0557-014	Concrete Supplier:	Auburn Concrete
Weather Conditions:	Sunny	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3500 PSI
Admixtures:	1% Pozzutec 20+, Mid Range Water Reducer	Max. Aggregate Size:	3/8 In.
Placement Location:	Slab on Deck - Level 4 Tower Crane Area and Garage Connector		
Test Cylinder Location:	Level 4 Tower Crane Area		

FEB 11 2011

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time
Load No.	1	Slump (in)	ASTM C 143	3.5
Ticket No.	166750	Air (°F)		37
Truck No.	99	Concrete (°F)		55
Cubic Yds.	10	Air Content (%)	ASTM C 231	4.0
				Batched @ 7:15 AM
				Arrived @ 7:48 AM
				Total Time 65 ±

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1
 Date Received: 14-Jan-11
 Condition of Cylinders: Good

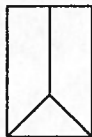
Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
68052	20-Jan-11	4.012	12.64	7	39260	3110	2
68053	10-Feb-11	4.010	12.63	28	56600	4480	5
68054	10-Feb-11	4.010	12.63	28	57710	4570	2
68055	HOLD			H			

*Concrete compressive strength by ASTM C 39

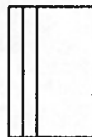
Types of Breaks



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	166751	85	10	--	--	--	--	55±
3	166757	99	2	--	--	--	--	35±
4	166759	107	10	--	--	--	--	90±
5	166761	97	10	--	--	--	--	40±
6	166762	99	10	--	--	--	--	40±

Remarks: Curing Temps: High 64°, Low 49°
 Lightweight Concrete
 Unit Weight = 122.0 pcf
 Total loads = 14

Checked by:

Matthew T. Grady, Manager of MTS

R.W. GILLESPIE & ASSOCIATES

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Project No:	0557-014	Concrete Supplier:	Auburn Concrete
Weather Conditions:	Sunny	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3500 PSI
Admixtures:	1% Pozzutec 20+, Mid Range Water Reducer	Max. Aggregate Size:	3/8 In.
Placement Location:	Slab on Deck - Level 4 Tower Crane Area and Garage Connector		
Test Cylinder Location:	Level 4 Garage Connector		

FEB 1 2011

Date Report Issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich	Time Batched @ 11:52 AM Arrived @ 12:15 PM Total Time 45 ±
Load No.	7	Slump (in)	ASTM C 143 6.75	
Ticket No.	166763	Air (°F)	33	
Truck No.	98	Concrete (°F)	61	
Cubic Yds.	10	Air Content (%)	ASTM C 231 4.00	

*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1
 Date Received: 14-Jan-11
 Condition of Cylinders: Good

Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
68056	20-Jan-11	4.012	12.64	7	51560	4080	6
68057	10-Feb-11	4.010	12.63	28	67710	5360	2
68058	10-Feb-11	4.010	12.63	28	66365	5250	6
68059	HOLD			H			

*Concrete compressive strength by ASTM C 39

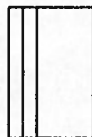
Types of Breaks



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	166765	106	10	--	--	--	--	40±
9	166768	97	10	--	--	--	--	±
10	116769	99	10	--	--	--	--	65±
11	Not Used	85	10	--	--	--	--	--

Remarks: Curing Temps: High 64°, Low 49°
 Lightweight Concrete
 Unit Weight = 122.6 pcf
 Total loads = 14

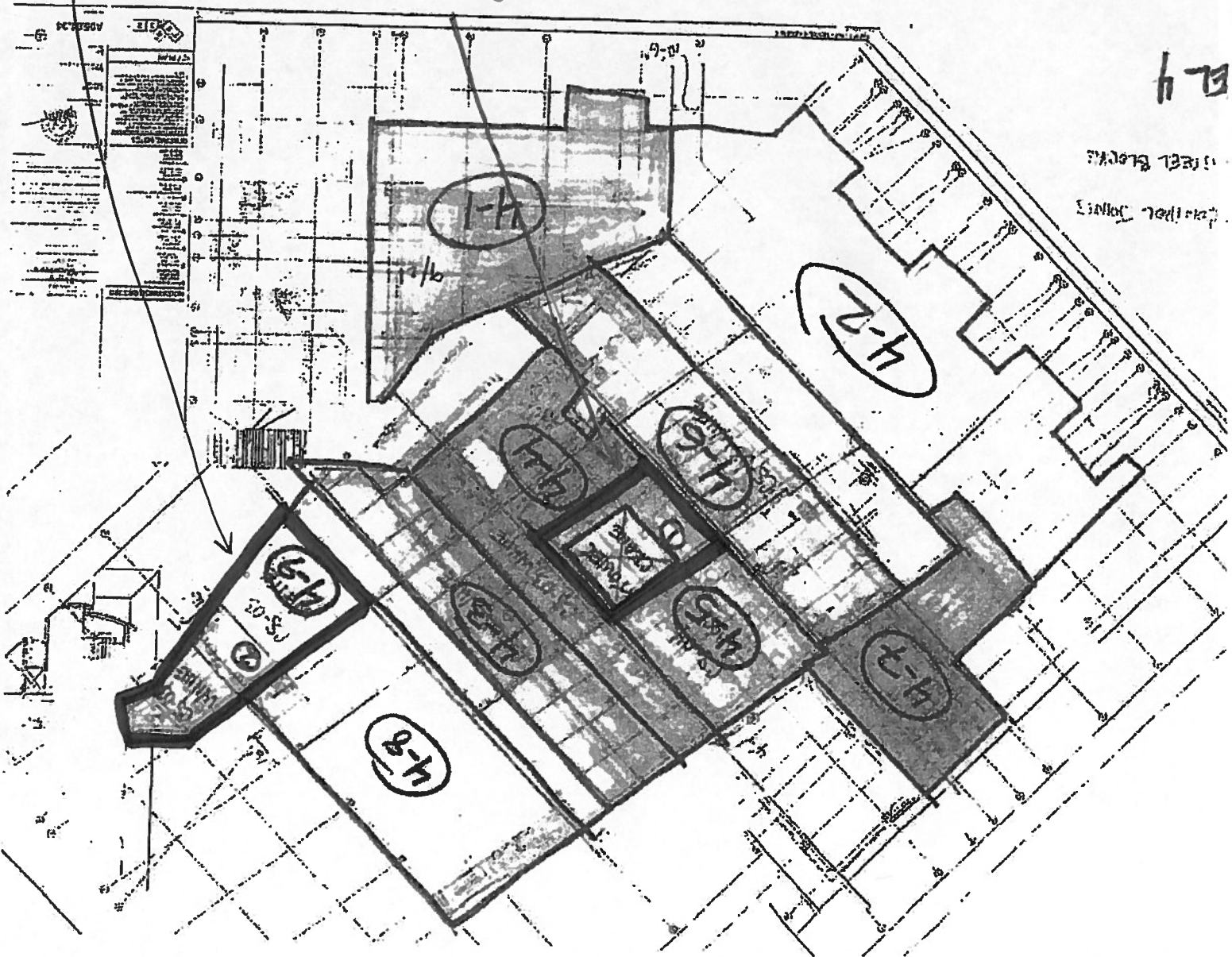
Checked by:

Mathew T. Grady, Manager of MTS

LIGHTWEIGHT WHITE
CONCRETE (SLAB ON DECK)

CHOCOLATE LIGHTWEIGHT
CONCRETE (SLAB ON DECK)

PORTLAND INT'L AIRPORT
TERMINAL EXPANSION
SS7-14 1/13/11
MSK



124
Level Blocks
Level Joists

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Project No:	0557-014	Concrete Supplier:	Auburn Concrete
Weather Conditions:	Sunny	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3500 PSI
Admixtures:	2% Pozzutec 20+, Mid Range Water Reducer	Max. Aggregate Size:	3/8 In.
Placement Location:	Slab on Grade - Level 2 Tower Crane Area		
Test Cylinder Location:	Slab on Grade - Level 2 Tower Crane Area		

FEB 1 2011

Date Report issued:

4x8 Cylinders	4	Cast By	Michael J Kramlich		
Load No.	13	Slump (in)	ASTM C 143	3.75	Time
Ticket No.	166773	Air (°F)		48	Batched @ 3:04 PM
Truck No.	99	Concrete (°F)		60	Arrived @ PM
Cubic Yds.	10	Air Content (%)	ASTM C 231	3.80	Total Time ±

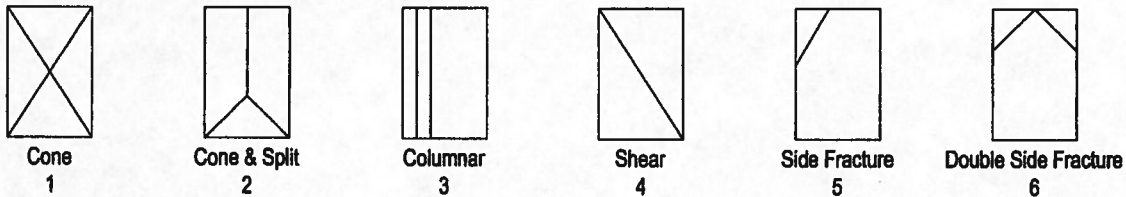
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field Cure Days: 1
 Date Received: 14-Jan-11
 Condition of Cylinders: Good

Lab No.	Test Date	Ave Dia (in)	Ave Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break Type
68060	20-Jan-11	4.012	12.64	7	53980	4270	2
68061	10-Feb-11	4.010	12.63	28	69640	5510	2
68062	10-Feb-11	4.010	12.63	28	67130	5320	2
68063	HOLD			H			

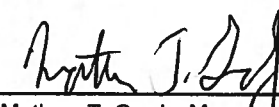
*Concrete compressive strength by ASTM C 39

Types of Breaks



Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min)
12	166772	97	10	--	--	--	--	50±
14	166774	98	10	--	--	--	--	--

Remarks: Curing Temps: No temperature readings, but the curing box was left in a heated area.
 Total loads = 14

Checked by: 
 Mathew T. Grady, Manager of MTS

PORTLAND INT'L JETPORT
TERMINAL EXPANSION
557-14
MSK
1/13/11

SHEET NOTES

1. REFER TO SHEET 182-1 FOR GENERAL NOTES.
2. ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND INCHES.
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GENERAL NOTES

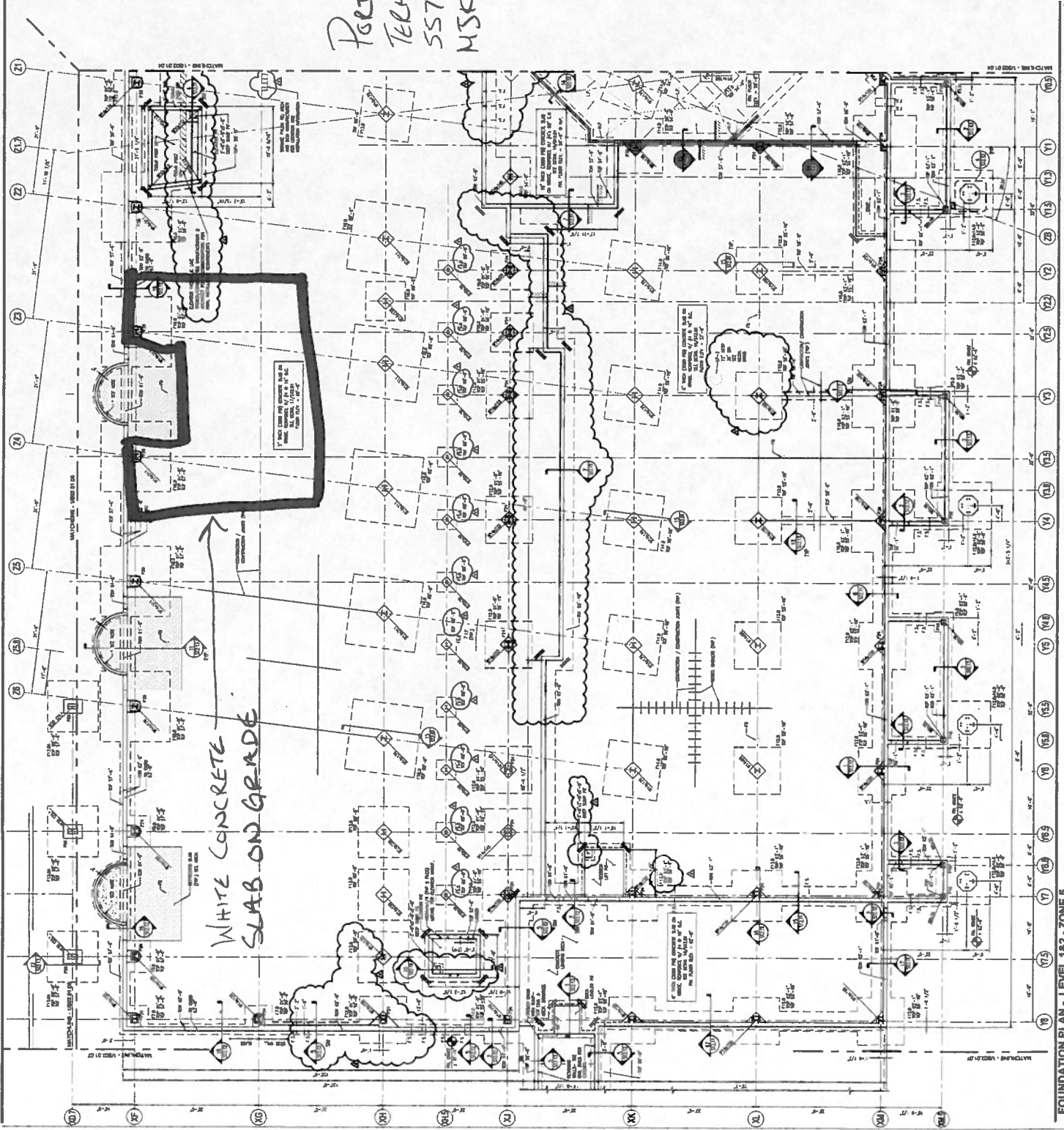
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KEY PLAN



S02.01.05

2/2



FOUNDATION PLAN - LEVEL 1&2 - ZONE 5