

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 21, 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)
67161	28
67162	28
67167	28
67168	28
67173	28
67174	28
67179	28
67180	28
67185	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)
□□□□ □□□□, □□□□ (□□□□.□□□□@□□□□.□□□)

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	Date Cylinders Cast:	22-Sep-10
Project No:	557-14	Concrete Supplier:	Auburn
Weather Conditions:	Sunny	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3,500
Admixtures:	Mid Range Water Reducer	Max Agg. Size:	3/8
Placement Location:	4th Floor: Slab on Deck, 3rd floor slab on deck 4-1, 3-1		
Test Cylinder Location:	See attached sketch - 4th floor		

Date Report Issued: **OCT 21 2010**

4x8 Cylinders	6	Cast by	Erik E. Cohenour	Time
Load No.	4	Slump (in) ASTM C 143	7	Batched @
Ticket No.	180798	Air (°F)	66	Arrived @
Truck No.	98	Concrete (°F) ASTM C 1064	72	Total Time
Cubic Yds.	10	Air Content (%) ASTM C 231	3.25	

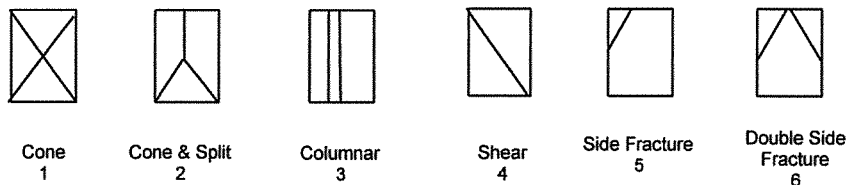
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
 Date received 23-Sep-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67160	29-Sep-10	4.020	12.69	7	37,140	2930	6
67161	20-Oct-10	4.016	12.67	28	49,880	3940	5
67162	20-Oct-10	4.016	12.67	28	53,760	4240	2
67163	24-Sep-10	4.016	12.67	2	31,320	2470	5
67164	HOLD			HOLD			
67165	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.)
1	180792	98	rejected	--	--	--	--	90
2	180794	106	rejected	2.50	--	--	--	90
3	180797	83	10	--	--	--	--	--
5	180799	106	10	--	--	--	--	--
6	180802	116	10	--	--	--	--	--
7	180803	83	10	--	--	--	--	--

Remarks: 23 Total Loads, Unit weight 122.6 pcf
 Unless noted, truck times not observed due to location. Trucks averaged ~15 min at pump, 20-25 minutes travel time and 5 - 10 minutes on site waiting.
 Mix adjusted @ plant on Load 4 - water added on-site checked by: Matthew T. Grady
 "as needed". Matthew T. Grady, Manager of MTS

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CONCRETE TEST/PLACEMENT REPORT

Project Name:	Terminal Enhancement, Portland Int. Jetport	Date Cylinders Cast:	22-Sep-10
Project No:	557-14	Concrete Supplier:	Auburn
Weather Conditions:	Sunny	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3,500
Admixtures:	Mid Range Water Reducer	Max Agg. Size:	3/8
Placement Location:	4th Floor: Slab on Deck, 3rd floor slab on deck 4-1, 3-1		
Test Cylinder Location:	See attached sketch - 4th floor		

Date Report Issued: **OCT 21 2010**

4x8 Cylinders	6	Cast by	Erik E. Cohenour	Time
Load No.	8	Slump (in) ASTM C 143	7	Batched @
Ticket No.	180805	Air (°F)	70	Arrived @
Truck No.	99	Concrete (°F) ASTM C 1064	73	Total Time
Cubic Yds.	10	Air Content (%) ASTM C 231	3	

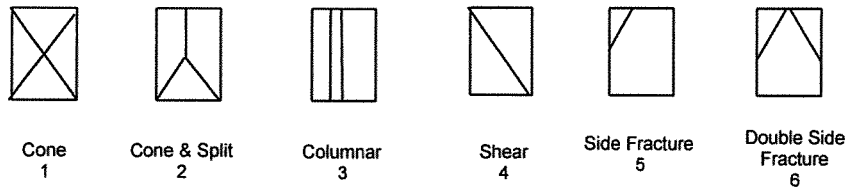
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
 Date received 23-Sep-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67166	29-Sep-10	4.020	12.69	7	37,300	2940	5
67167	20-Oct-10	4.016	12.67	28	47,540	3750	5
67168	20-Oct-10	4.016	12.67	28	50,140	3960	5
67169	24-Sep-10	4.016	12.67	2	32,660	2580	6
67170	HOLD			HOLD			
67171	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.)
9	180807	106	10	--	--	--	--	--
10	180809	83	10	--	--	--	--	--
11	180811	86	10	--	--	--	--	--

Remarks: 23 Total Loads, unit weight 123.6 pcf
 Unless noted, truck times not observed due to location. Trucks averaged ~15 min at pump, 20-25 minutes travel time and 5 - 10 minutes on site waiting.

Checked by: 
 Matthew T. Grady, Manager of MTS

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CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement, Portland Int. Jetport	Date Cylinders Cast: 22-Sep-10
Project No: 557-14	Concrete Supplier: Auburn
Weather Conditions: Sunny	General Contractor: Turner
Method of Placement: Pump	Design Strength: 3,500
Admixtures: Mid Range Water Reducer	Max Agg. Size: 3/8
Placement Location: 4th Floor: Slab on Deck, 3rd floor slab on deck 4-1, 3-1	
Test Cylinder Location: See attached sketch - 4th floor	

Date Report Issued: OCT 21 2010

4x8 Cylinders	6	Cast by	Michael J. Kramlich	Time
Load No.	12	Slump (in) ASTM C 143	7	Batched @
Ticket No.	180812	Air (°F)	72	Arrived @
Truck No.	99	Concrete (°F) ASTM C 1064	75	Total Time
Cubic Yds.	10	Air Content (%) ASTM C 231	3	

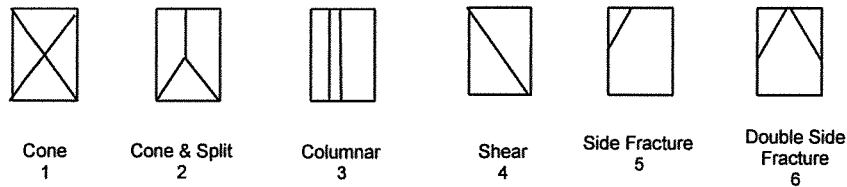
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
 Date received 23-Sep-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67172	29-Sep-10	4.020	12.69	7	43,620	3440	5
67173	20-Oct-10	4.016	12.67	28	53,100	4190	5
67174	20-Oct-10	4.016	12.67	28	47,640	3760	6
67175	24-Sep-10	4.016	12.67	2	33,040	2610	5
67176	HOLD			HOLD			
67177	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.)
13	180816	106	10	--	--	--	--	--
14	180817	97	10	--	--	--	--	--
15	180818	86	10	--	--	--	--	--
16	180820	84	10	--	--	--	--	--

Remarks: 23 Total Loads, Unit weight 123.6 pcf
 Unless noted, truck times not observed due to location. Trucks averaged ~15 min at pump, 20-25 minutes travel time and 5 - 10 minutes on site waiting.

Checked by: Matthew T. Grady
 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: 4th Floor: Slab on Deck, 3rd floor slab on deck 4-1, 3-1
Test Cylinder Location: See attached sketch - 4th floor

Date Cylinders Cast: 22-Sep-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,500
Max Agg. Size: 3/8

Date Report Issued:

OCT 21 2010

4x8 Cylinders	6	Cast by	Erik E. Cohenour	Time	
Load No.	17	Slump (in) ASTM C 143	7.5	Batched @	12:24
Ticket No.	180822	Air (°F)	77	Arrived @	12:50
Truck No.	97	Concrete (°F) ASTM C 1064	73	Total Time	45
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 23-Sep-10
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67178	29-Sep-10	4.020	12.69	7	38,520	3040	6
67179	20-Oct-10	4.016	12.67	28	56,040	4420	5
67180	20-Oct-10	4.016	12.67	28	50,640	4000	2
67181	24-Sep-10	4.016	12.67	2	35,620	2810	2
67182	HOLD			HOLD			
67183	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

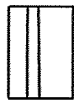
Types of Breaks



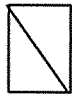
Cone
1



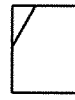
Cone & Split
2



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	180823	116	10	--	--	--	--	--
19	180827	106	10	--	--	--	--	--
20	180828	94	10	--	--	--	--	--
21	180829	97	10	--	--	--	--	--

Remarks: 23 Total Loads, Unit weight 123.2 pcf
 Unless noted, truck times not observed due to location. Trucks averaged ~15 min at pump, 20-25 minutes travel time and 5 - 10 minutes on site waiting.

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

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Project No:	557-14	Concrete Supplier:	Auburn
Weather Conditions:	Sunny	General Contractor:	Turner
Method of Placement:	Pump	Design Strength:	3,500
Admixtures:	Mid Range Water Reducer	Max Agg. Size:	3/8
Placement Location:	4th Floor: Slab on Deck, 3rd floor slab on deck 4-1, 3-1		
Test Cylinder Location:	See attached sketch - 3rd floor		

Date Report Issued: OCT 21 2010

4x8 Cylinders	3	Cast by	Michael J. Kramlich	Time	
Load No.	22	Slump (in) ASTM C 143	5.75	Batched @	2:06
Ticket No.	180830	Air (°F)	76	Arrived @	2:30
Truck No.	76	Concrete (°F) ASTM C 1064	73	Total Time	45
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 23-Sep-10

Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67184	29-Sep-10	4.020	12.69	7	40,900	3220	5
67185	20-Oct-10	4.016	12.67	28	55,040	4340	6
67186	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

Types of Breaks



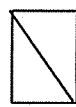
Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



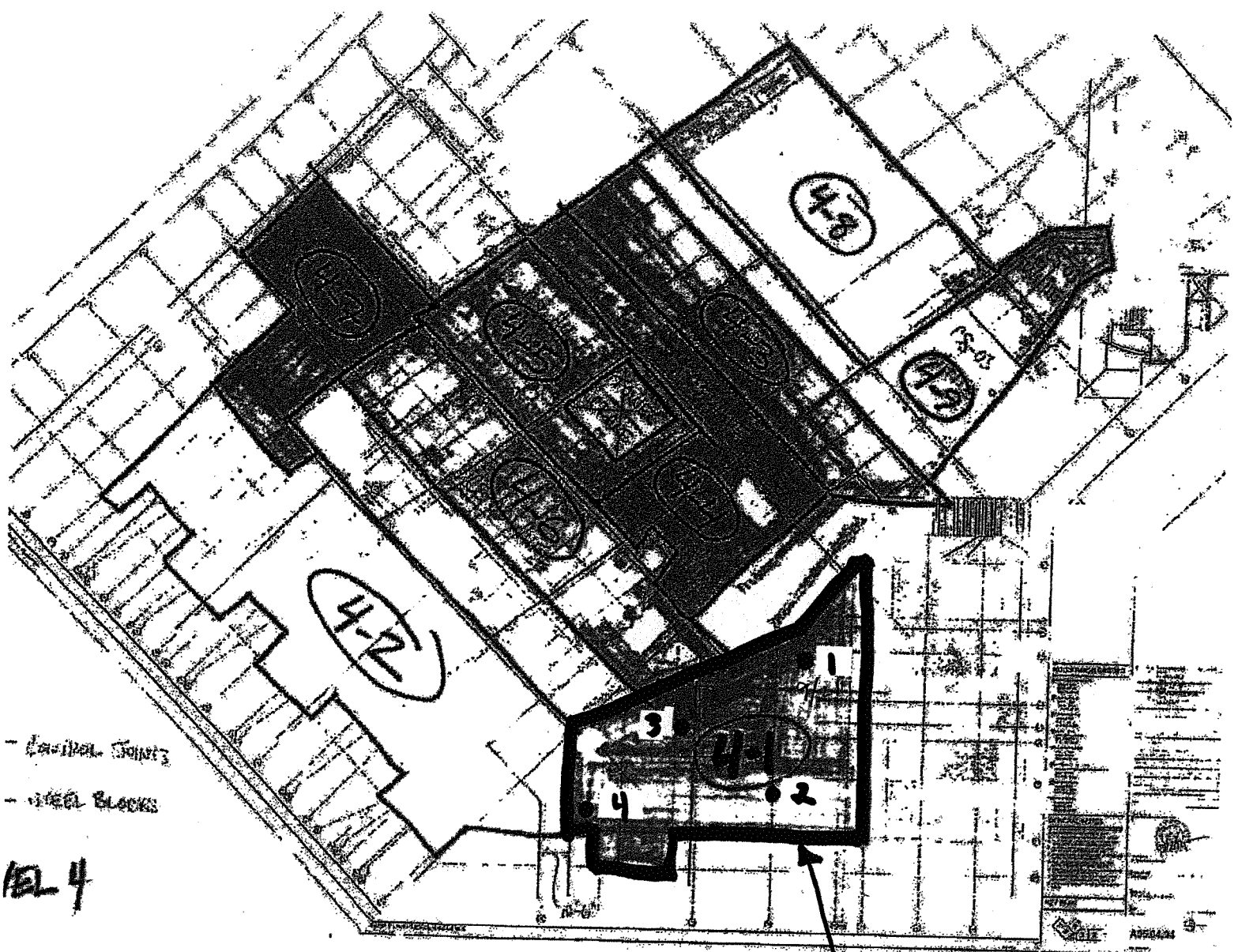
Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
23	180832	96	10	--	--	--	--	--

Remarks: 23 Total Loads, Unit weight 123.2 pcf

Unless noted, truck times not observed due to location. Trucks averaged ~15 min at pump, 20-25 minutes travel time and 5 - 10 minutes on site waiting.

Checked by:
 Matthew T. Grady, Manager of MTS

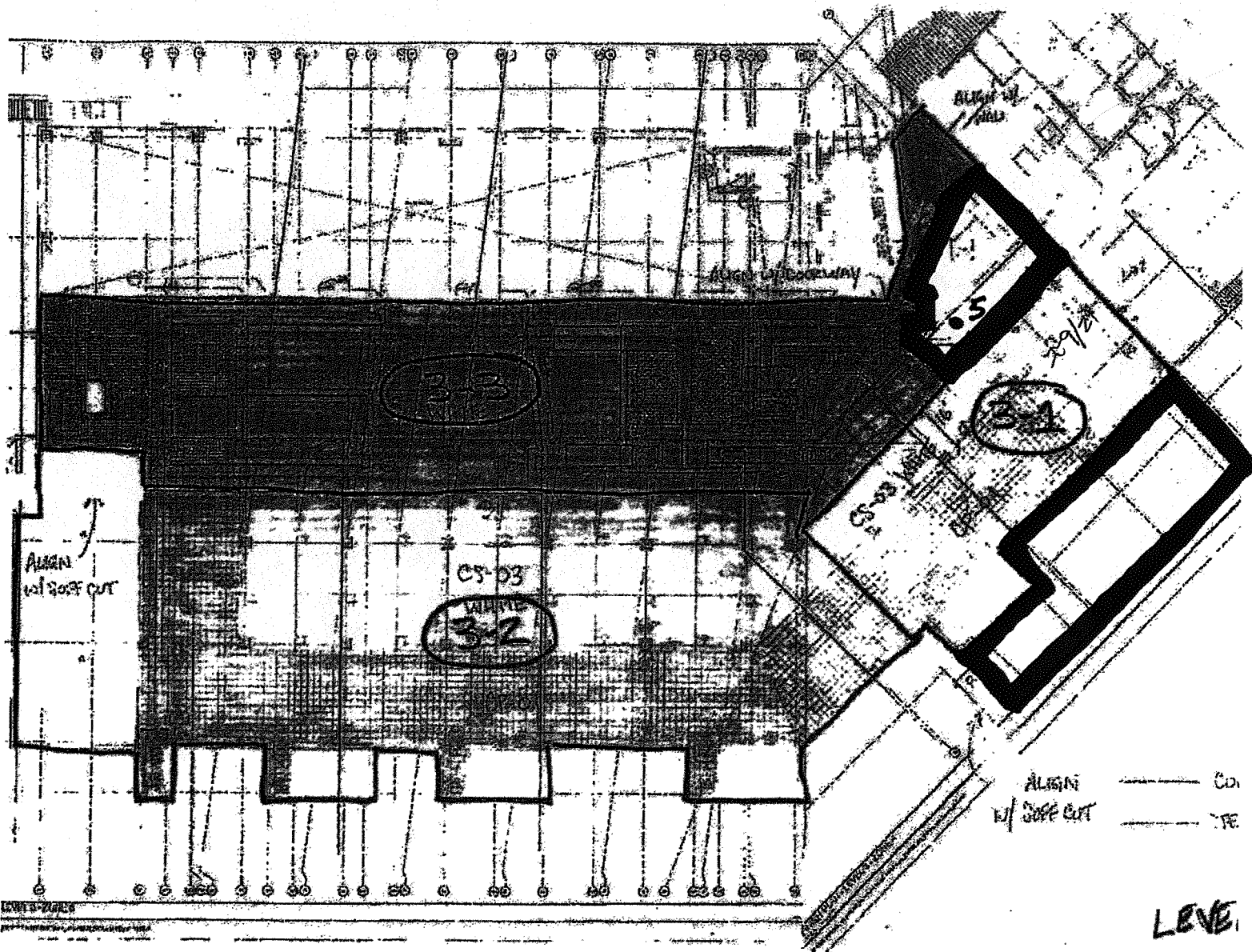


- Cast-in-place concrete
- Steel Blocks

REL 4

LIGHTWEIGHT CONCRETE PLACEMENT
 4TH FLOOR
 W/ TEST LOCATIONS

PORTLAND INT'L JETPOR
 TERMINAL EXPANSION
 557-14
 9-22-10
 HJIC



LIGHTWEIGHT CONCRETE PLACEMENT
 3RD FLOOR
 W/ TEST LOCATION

PORTLAND INT'L AIRPORT
 TERMINAL EXPANSION
 557-14
 9-22-10
 MSK