

R. W. Gillespie & Associates, Inc.

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P.O. Box 289, Augusta, ME 04332 207-623-4914
200 Int'l 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:	02 December 2010	Project No.:	557-14
Attention:	Mr. Cuyler Feagles (cmf@portlandmaine.gov)		
Re:	Fireproofing Test Results Terminal Enhancement, Portland Int. Jetport Portland, Maine		

We are sending you attached laboratory test results.

Dates Performed

November 05, 2010
November 10, 2010
November 19, 2010

Test (s) Performed

Fireproofing Thickness and Density
Fireproofing Thickness
Fireproofing Thickness

Remarks:

Thicknesses and density were in general conformance with the specification.

Copy To: Roy Williams: rsw@portlandmaine.gov

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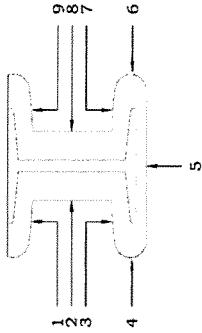
dlasher@tcco.com

Signed: Katrina Newton

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

R.W. GILLESPIE AND ASSOCIATES, INC

THICKNESS OF SFRM ON BEAM



- FLUTES:
 Plugged?
 Filled?
 Open?

Project Name: Portland International Jetport - Term. Enh.
 Project Number: 557-14
 Client: City of Portland
 Date: 11/5/10
 Inspector: DMR



Take 9 measurements at each end of 12-in. length

Test #	Location	1	2	3	4*	5	6*	7	8	9	Total	Average
1	Zone 4, Level 3, W27X161, E.3- 1ZC to 1ZB, 2 Hr Rating	12/16	13/16	12/16	6/16	10/16	7/16	12/16	12/16	12/16	5 3/16	12/16
		12/16	14/16	12/16	8/16	9/16	8/16	13/16	10/16	10/16	13/16	5 3/16
2	Zone 5, Level 3, W27X114, Y6 to Y5-XL, 2 Hr Rating	1	1	1	8/16	14/16	10/16	11/16	12/16	14/16	6 3/16	14/16
		1	1	1	10/16	12/16	10/16	10/16	12/16	10/16	5 12/16	13/16
3	Zone 5, Level 3, W27X146, Y3-XL to XM, 2 Hr Rating	15/16	11/16	12/16	10/16	14/16	8/16	15/16	12/16	11/16	5 10/16	13/16
		14/16	10/16	13/16	9/16	1	10/16	15/16	15/16	13/16	5 13/16	13/16

Note: * Average the flange tip measurements separately where reduced thicknesses are applied under W/D formula.

Beam:	1	2	3	Beam:	3	Beam:	3	Beam:	3
Average Required	10/16	12/16	11/16	Average Required	11/16	Average Required	11/16	Average Required	11/16
Min Required	8/16	9/16	8/16	Min Required	8/16	Min Required	8/16	Min Required	8/16
Max Required	14/16	1	15/16	Max Required	15/16	Max Required	15/16	Max Required	15/16
Average Recorded	12/16	14/16	13/16	Average Recorded	13/16	Average Recorded	13/16	Average Recorded	13/16
Flange Tip (W/D):				Flange Tip (W/D):		Flange Tip (W/D):		Flange Tip (W/D):	
Average Required	5/16	6/16	5/16	Average Required	5/16	Average Required	5/16	Average Required	5/16
Average Recorded	7/16	10/16	9/16	Average Recorded	9/16	Average Recorded	9/16	Average Recorded	9/16

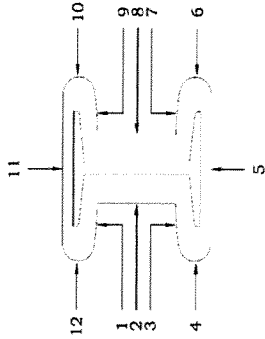
Comments:
 Thicknesses are in general conformance with specifications.

MTG

THICKNESS OF SFIRM ON COLUMN



Project Name: Portland International Jetport - Term. Enh
 Project Number: 557-14
 Client: City of Portland
 Date: 11/5/10
 Inspector: DMR



Take 12 measurements at each end of 12-in. length

Test #	Location	1	2	3	4*	5	6*	7	8	9	10*	11	12*	Total	Average
1	Zone 4, Level 1, W14x159, 1ZC-E.3, 2 Hr Rating	13/16	13/16	1	13/16	1	8/16	15/16	12/16	8/16	1 5/16	1 2/16	12/16	6 15/16	14/16
2	Zone 5, Level 3, W14x90, XL-Y6, 2 Hr Rating	1 4/16	1 8/16	1 4/16	1	1 5/16	1	1 4/16	1 3/16	1 7/16	15/16	1 6/16	1	10 9/16	1 5/16
3	Zone 5, Level 3, W14x176, Y2-XK, 2 Hr Rating	1 6/16	1 6/16	1 6/16	1 2/16	1 8/16	1	1 5/16	1 4/16	1 8/16	1 1/16	1 7/16	15/16	11 2/16	1 6/16
		1	14/16	1	10/16	12/16	9/16	14/16	12/16	1	8/16	14/16	10/16	7 2/16	14/16
		14/16	1	12/16	10/16	1	8/16	15/16	13/16	1	8/16	9/16	9/16	6 15/16	14/16

Note: * Average the flange tip measurements separately where reduced thicknesses are applied under W/D formula.

Column:	1	2	3
Average Required	13/16	1 3/16	12/16
Min Required	10/16	15/16	9/16
Max Required	1 1/16	1 7/16	1
Average Recorded	14/16	1 6/16	14/16

Flange Tip (W/D):	7/16	10/16	6/16
Average Required	7/16	10/16	6/16
Average Recorded	12/16	1	9/16

Comments:
 Thicknesses are in general conformance with specifications.

MTG

Density Calculation Sheet

COLUMN

12C-53

Level 1

Level 4 Zone 4

Zone 4

Portland Satport

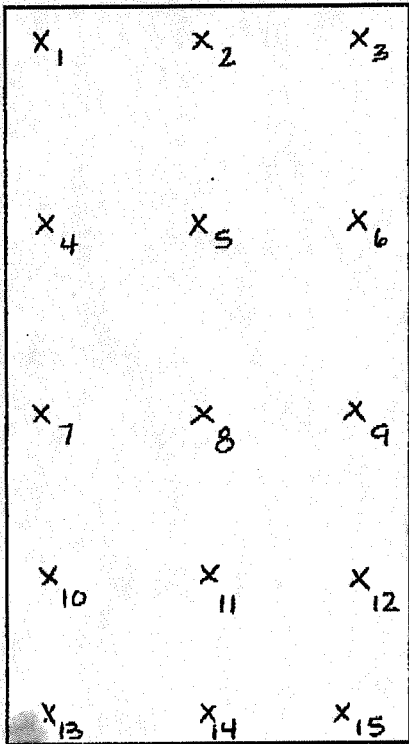
557-14

DATE: 11-5-10

BY: DMR

MEMBER SIZE: W14 X 159

2 hr Rating



Length = 12" in

Length: 12" in

Width: 6" in

Thickness: 13/16 in

Volume: 58.5 in³ 0.03385 cf

Width = 6" in

Thickness:

- 1 9/8
- 2 1"
- 3 13/16
- 4 3/4
- 5 7/8
- 6 7/8
- 7 5/8
- 8 3/4
- 9 13/16
- 10 3/4
- 11 7/8
- 12 7/4
- 13 7/4
- 14 7/8
- 15 1"

Pan #:

3A

Pan Tare: 890.4 g lbs

Pan & Wet SFRM: 1255.8 g lbs

Pan & Dry SFRM: 1181.5 g lbs

Dry SFRM: 291.1 = g lbs

Volume: 58.5 cf

Density: 19.0 pcf

16418 lbs
24118 lbs
REQUIRED DENSITY = 15 pcf

DENSITY IS IN GENERAL CONFORMANCE WITH SPECIFICATION

1 sq. foot = 1728 sq. inches

1 lbs = 453.59 grams

CHECKED BY: MTC

Total:

(mm)

Total:

(in) 12.35"

Avg.:

(in) +3/16 = .8125"

0.825"

THICKNESS REQUIRED



SAMPLE NUMBER: 1

Project: Terminal Enhancement - Portland International Jetport
 Project No.: 557-14
 Date: 11/5/10
 Technologist: DML

Portland International
 Jetport
 1001 Westwood Street
 Portland, Maine 04102

Gensler

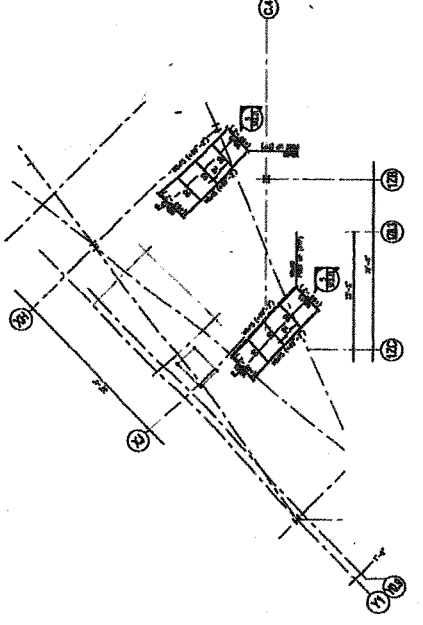
MAST ASSOCIATES, INC.
 1000 Commercial Street
 Portland, Maine 04102

SHEET NOTES

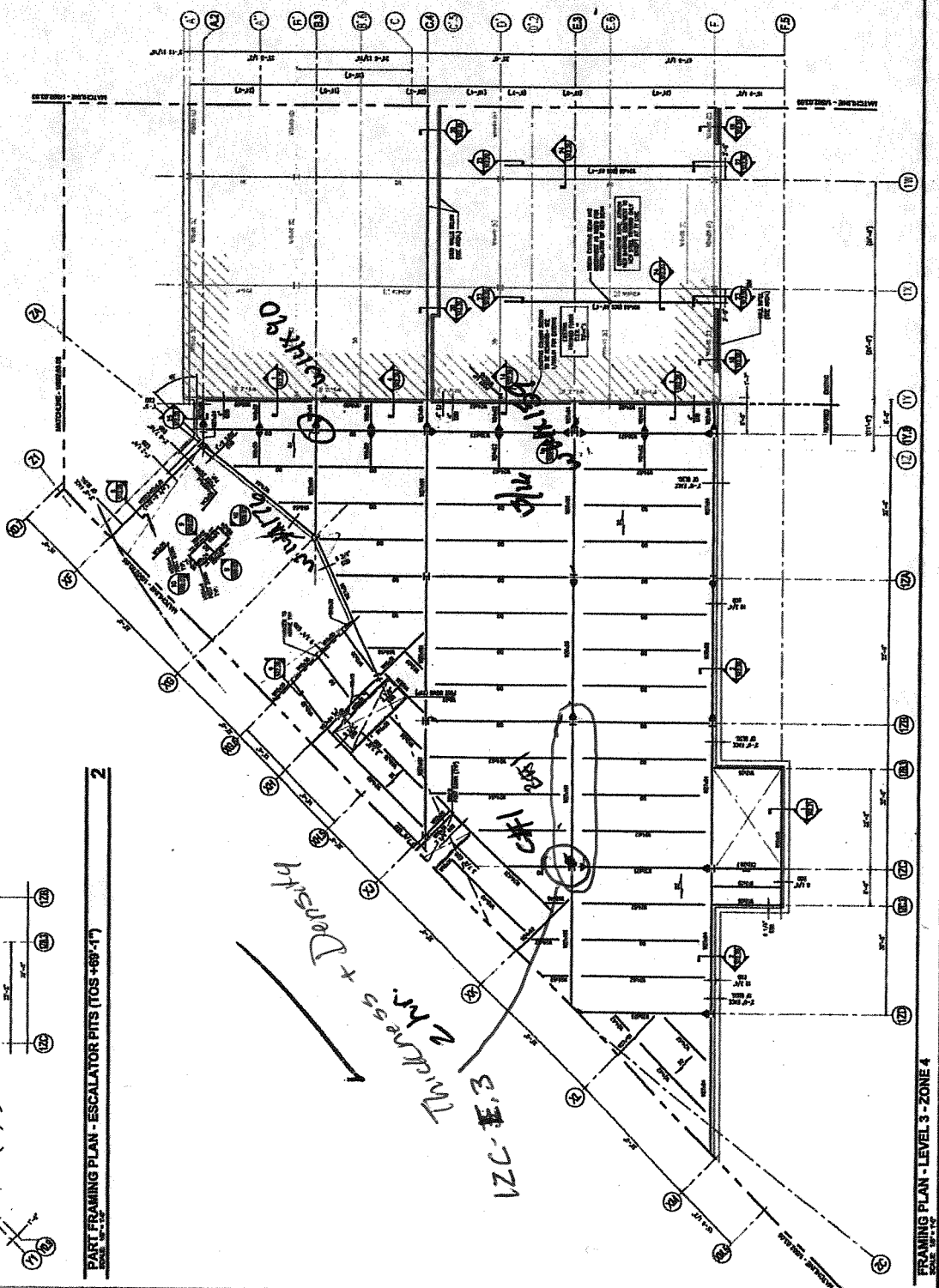
1. REFER TO SHEET FOR THE LOCATION OF THIS SHEET.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL JETPORT CONSTRUCTION MANUAL.
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GENERAL NOTES

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PART FRAMING PLAN - ESCALATOR PITS (TOS +88'-11")



FRAMING PLAN - LEVEL 3 - ZONE 4

KEY PLAN



S02.03.04

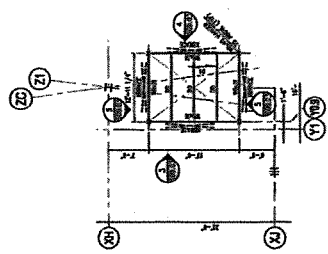
Portland International
Jetport
1801 Westwood Street
Portland, Maine 04102

Gensler

Project: Terminal Enhancement - Portland International Jetport
Project No.: 557-14
Date: 11/5/10
Technologist: BMR

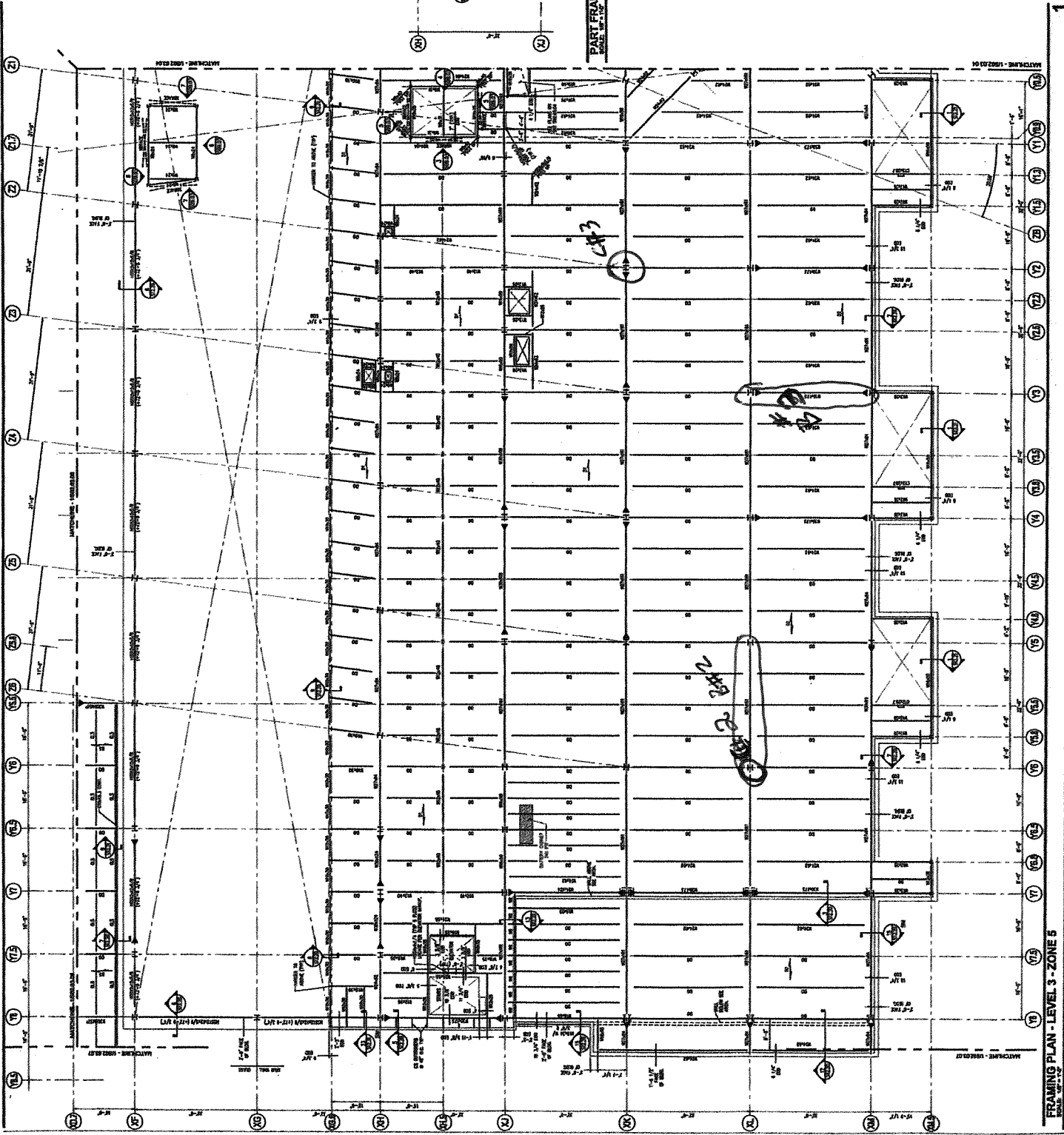
Professional Engineer
State of Maine
No. 10000
Date: 11/5/10
Scale: 1/8" = 1'-0"

- SHEET NOTES**
1. REFER TO SHEET FOR ALL NOTES.
 2. ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND INCHES. FRACTIONS SHALL BE IN 16THS OF AN INCH. DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED.
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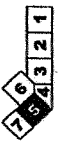
PART FRAMING PLAN (TOS +68'-8 1/2")

- GENERAL NOTES**
1. ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED.
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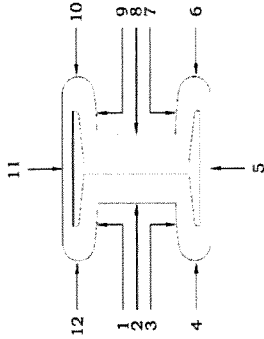
FRAMING PLAN - LEVEL 3 - ZONE B

KEY PLAN



S02.03.05
jeutohaue

THICKNESS OF SFRM ON COLUMN



Project Name: Portland International Jetport - Term. Enh
 Project Number: 557-14
 Client: City of Portland
 Date: 11/10/10
 Inspector: DMR

Take 12 measurements at each end of 12-in. length

Test #	Location	1	2	3	4*	5	6*	7	8	9	10*	11	12*	Total	Average
4	Zone 5, Level 1, W14x90, XL-Y6, 2 Hr Rating	1 6/16	1 6/16	1 7/16	1	1 4/16	1 1/16	1 3/16	1 2/16	1 7/16	1	1	14/16	10 3/16	1 4/16
		1 7/16	1 6/16	1 7/16	1	1 3/16	1 2/16	1 4/16	1 4/16	1 4/16	1 7/16	1 2/16	1 2/16	1	10 8/16
5	Zone 5, Level 1, W14x176, Xk-Y3, 2 Hr Rating	14/16	1 1/16	14/16	8/16	12/16	6/16	1 2/16	14/16	1 4/16	9/16	9/16	10/16	7 6/16	15/16
		15/16	1	12/16	9/16	13/16	8/16	1	12/16	1 3/16	7/16	15/16	10/16	7 6/16	15/16

Note: * Average the flange tip measurements separately where reduced thicknesses are applied under W/D formula.

Column: 4
 Average Required 1 3/16
 Min Required 15/16
 Max Required 1 7/16
 Average Recorded 1 5/16

Column: 5
 Average Required 12/16
 Min Required 9/16
 Max Required 1
 Average Recorded 15/16

Column:
 Average Required
 Min Required
 Max Required
 Average Recorded

Column:
 Average Required
 Min Required
 Max Required
 Average Recorded

Flange Tip (W/D):
 Average Required 10/16
 Average Recorded 1

Flange Tip (W/D):
 Average Required 6/16
 Average Recorded 8/16

Flange Tip (W/D):
 Average Required
 Average Recorded

Flange Tip (W/D):
 Average Required
 Average Recorded

Comments:
 Thicknesses are in general conformance with specifications.

MTB

Portland International Jetport
 1001 Westbrook Street
 Portland, Maine 04102

Gensler
OBSS **ROCKWELL INC.**
 ENGINEERS ARCHITECTS INTERIORS

1	FOUNDATION PLAN
2	FOUNDATION PLAN
3	FOUNDATION PLAN
4	FOUNDATION PLAN
5	FOUNDATION PLAN
6	FOUNDATION PLAN
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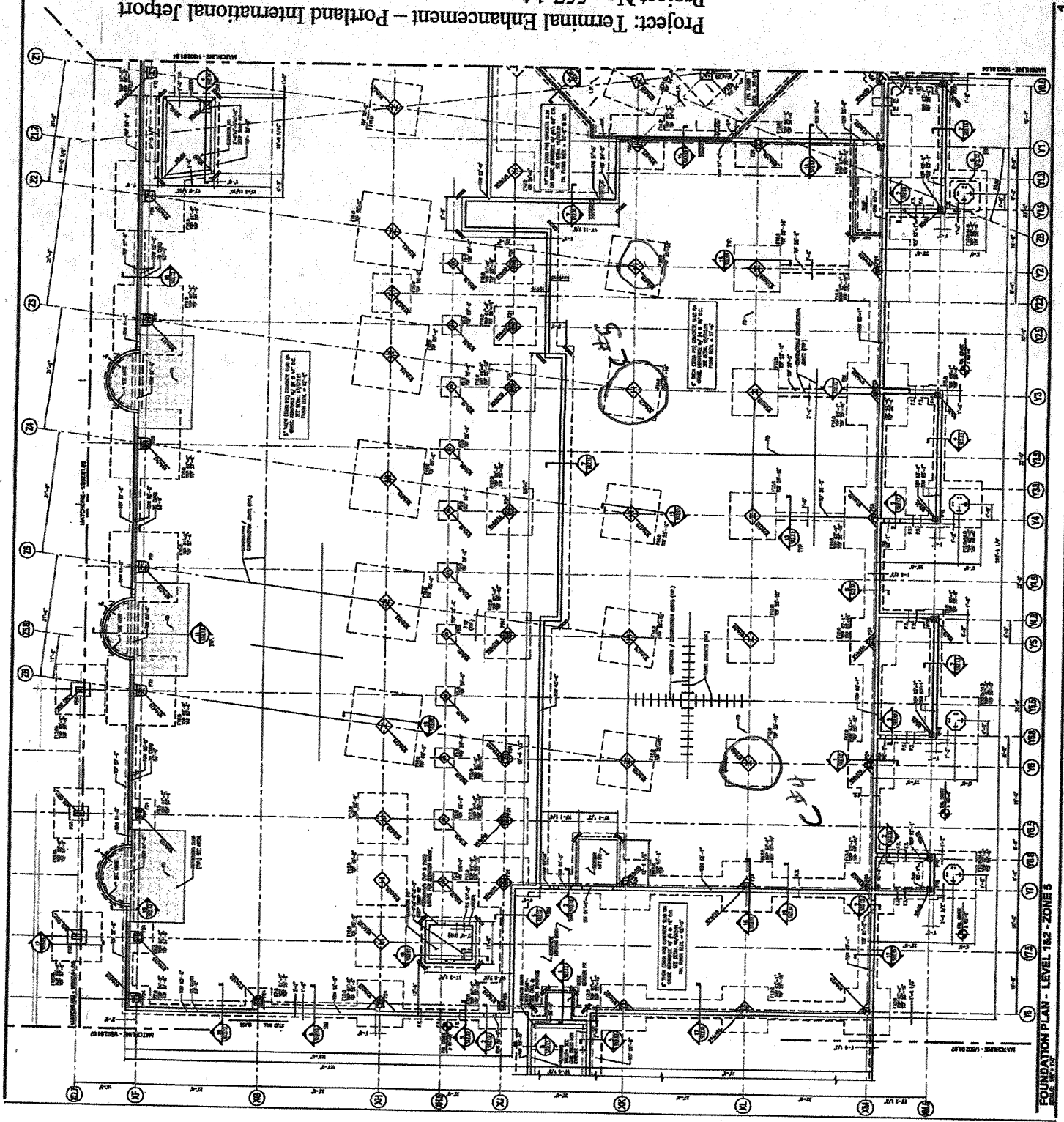


S02.01.05

SHEET NOTES
 1. ALL FOUNDATION WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE FOUNDATION CODE, 10A MRSA, AND THE MAINE FOUNDATION CODE, 10A MRSA, AND THE MAINE FOUNDATION CODE, 10A MRSA.
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Project: Terminal Enhancement - Portland International Jetport
Project No.: 557-14
Date: 11/10/10
Technologist: DMR

KEY PLAN
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

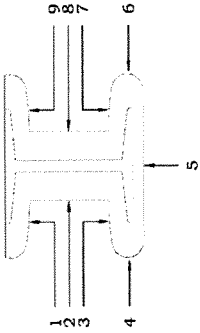


FOUNDATION PLAN - LEVEL 1B2 - ZONE 5



Project Name: Portland International Jetport - Term. Enh.
 Project Number: 557-14
 Client: City of Portland
 Date: 11/10/10
 Inspector: DMR

THICKNESS OF SFRM ON BEAM



FLUTES:
 Plugged?
 Filled?
 Open?

Take 9 measurements at each end of 12-in. length

Test #	Location	1	2	3	4*	5	6*	7	8	9	Total	Average
4	Zone 5, Level 3, W24x62, Y1.5-XL to XM, 2 Hr Rating	1 2/16	1 2/16	1 3/16	1	13/16	1	1	1 2/16	1 2/16	7 8/16	1 1/16
		1 3/16	1 3/16	1 3/16	14/16	13/16	1	15/16	1 1/16	1 1/16	1 2/16	7 8/16
5	Zone 5, Level 3, W30x173, XK to XL-Y7, 2 Hr Rating	14/16	15/16	15/16	10/16	15/16	8/16	11/16	12/16	15/16	6 1/16	14/16
		15/16	12/16	15/16	10/16	13/16	9/16	11/16	11/16	11/16	14/16	5 11/16

Note: * Average the flange tip measurements separately where reduced thicknesses are applied under W/D formula.

Beam:	4	5	Beam:	5	Beam:	5	Beam:
Average Required	15/16	11/16	Average Required	11/16	Average Required	11/16	Average Required
Min Required	11/16	8/16	Min Required	8/16	Min Required	8/16	Min Required
Max Required	1 3/16	15/16	Max Required	15/16	Max Required	15/16	Max Required
Average Recorded	1 1/16	13/16	Average Recorded	13/16	Average Recorded	13/16	Average Recorded
Flange Tip (W/D):			Flange Tip (W/D):		Flange Tip (W/D):		Flange Tip (W/D):
Average Required	8/16	6/16	Average Required	6/16	Average Required	6/16	Average Required
Average Recorded	1	9/16	Average Recorded	9/16	Average Recorded	9/16	Average Recorded

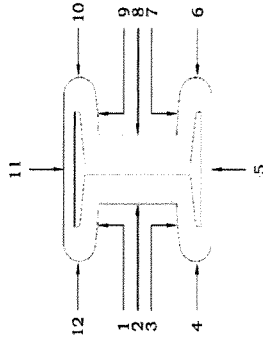
Comments:
 Thicknesses are in general conformance with specifications.

MTG

R.W. GILLESPIE AND ASSOCIATES, INC

THICKNESS OF SFRM ON COLUMN

Project Name: Portland International Jetport - Term. Enh
 Project Number: 557-14
 Client: City of Portland
 Date: 11/19/10
 Inspector: DMR



Take 12 measurements at each end of 12-in. length

Test #	Location	1	2	3	4*	5	6*	7	8	9	10*	11	12*	Total	Average
6	Zone 5, Level 3, W14x120, Y7-XH, 2 Hr Rating	1 4/16	1 4/16	1 4/16	13/16	1	12/16	1 4/16	1	1 3/16	10/16	1 4/16	8/16	9 7/16	1 3/16
7	Zone 5, Level 3, W10x38, Y2.5-YH.5, 2 Hr Rating	1 4/16	1 4/16	1 4/16	12/16	1	11/16	1 2/16	1	1 3/16	10/16	1 2/16	9/16	9 3/16	1 2/16
		12/16	11/16	12/16	8/16	14/16	6/16	12/16	1	14/16	8/16	15/16	6/16	6 10/16	13/16
		12/16	10/16	14/16	6/16	12/16	6/16	15/16	14/16	12/16	10/16	14/16	7/16	6 7/16	13/16

Note: * Average the flange tip measurements separately where reduced thicknesses are applied under W/D formula.

Column: 6
 Average Required _____
 Min Required 12/16
 Max Required 1 4/16
 Average Recorded 1 3/16

Flange Tip (W/D):
 Average Required 8/16
 Average Recorded 11/16

Column: 7
 Average Required 7/16
 Min Required 5/16
 Max Required 11/16
 Average Recorded 13/16

Flange Tip (W/D):
 Average Required 4/16
 Average Recorded 7/16

Column:
 Average Required _____
 Min Required _____
 Max Required _____
 Average Recorded _____

Flange Tip (W/D):
 Average Required _____
 Average Recorded _____

Column:
 Average Required _____
 Min Required _____
 Max Required _____
 Average Recorded _____

Flange Tip (W/D):
 Average Required _____
 Average Recorded _____

Comments:
 Thicknesses are in general conformance with specifications.

MTB

