Puddle Welds: _____

_____ ☐ Visually checked and found acceptable

Screw Attachments: _____

_____ ☐ Visually checked and found complete

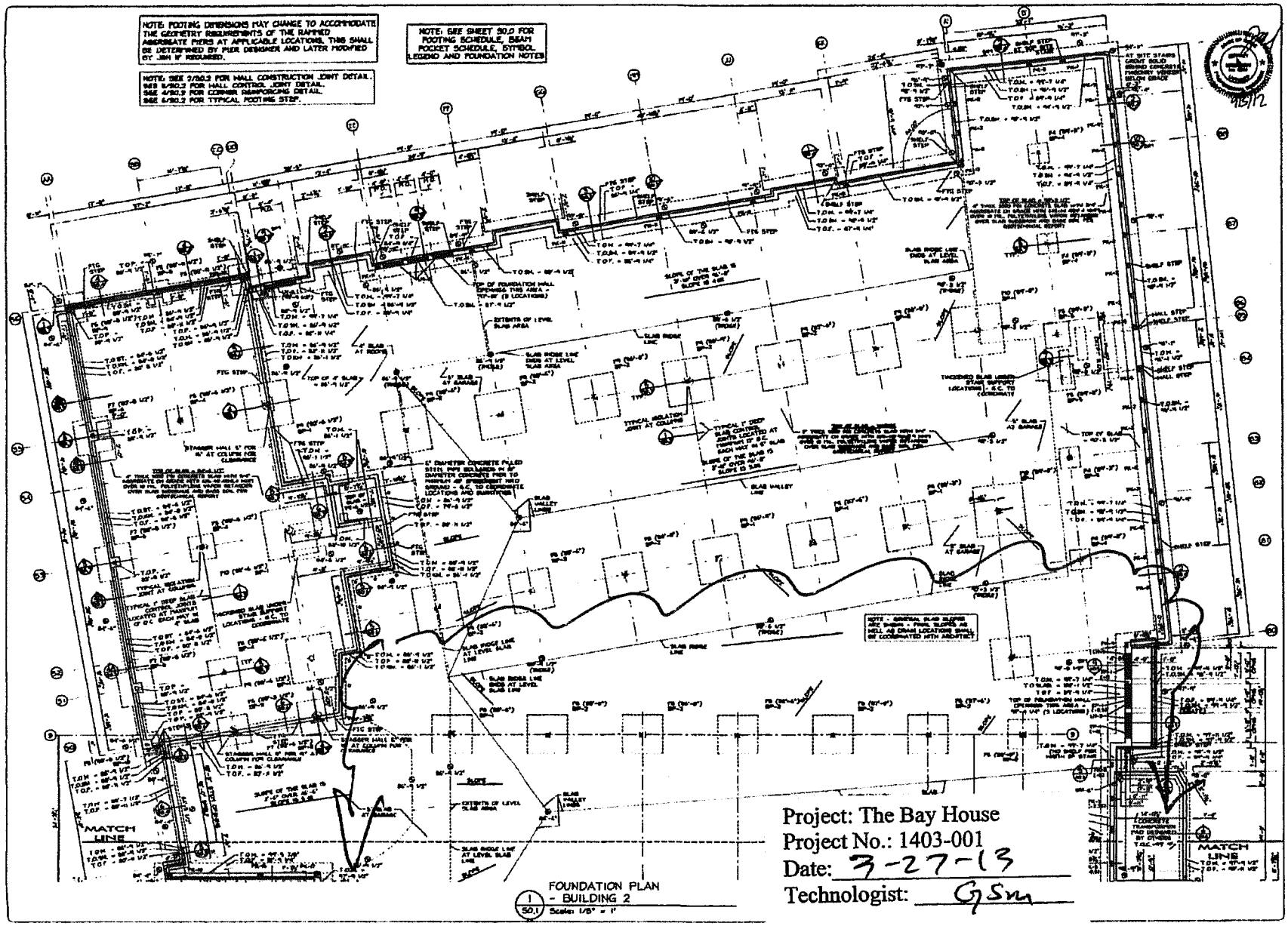
Other: _____

_____ ☐ Visually checked and found acceptable

☐ Visually checked and found complete

RWG&A personnel are represented on site solely to observe work of the identified contractors, to form opinions about the adequacy of those operations, and to report those opinions to RWG&A's client. The presence and activities of our field representative do not relieve any contractor from their obligations to meet contractual requirements. The contractor retains sole responsibility of site safety and the methods, operations, and sequences of construction.	Observations were verbally reported to: BOB LACHAPELLE, METRIC Construction Technologist/CWI: George S Morrell Print Name/Title Certification #: George S Morrell CWI 04050311 QC1 EXP. 5/1/2013

MTG



FOUNDATION PLAN
1 / S0.1 - BUILDING 2
Scale: 1/8" = 1'

Project: The Bay House
Project No.: 1403-001
Date: 3-27-13
Technologist: GSm

JSN Associates, Inc.

DAVID N. WHITE, ARCHITECT
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P. O. Box 447
Deerfield, New Hampshire 03045
(603) 417-3405

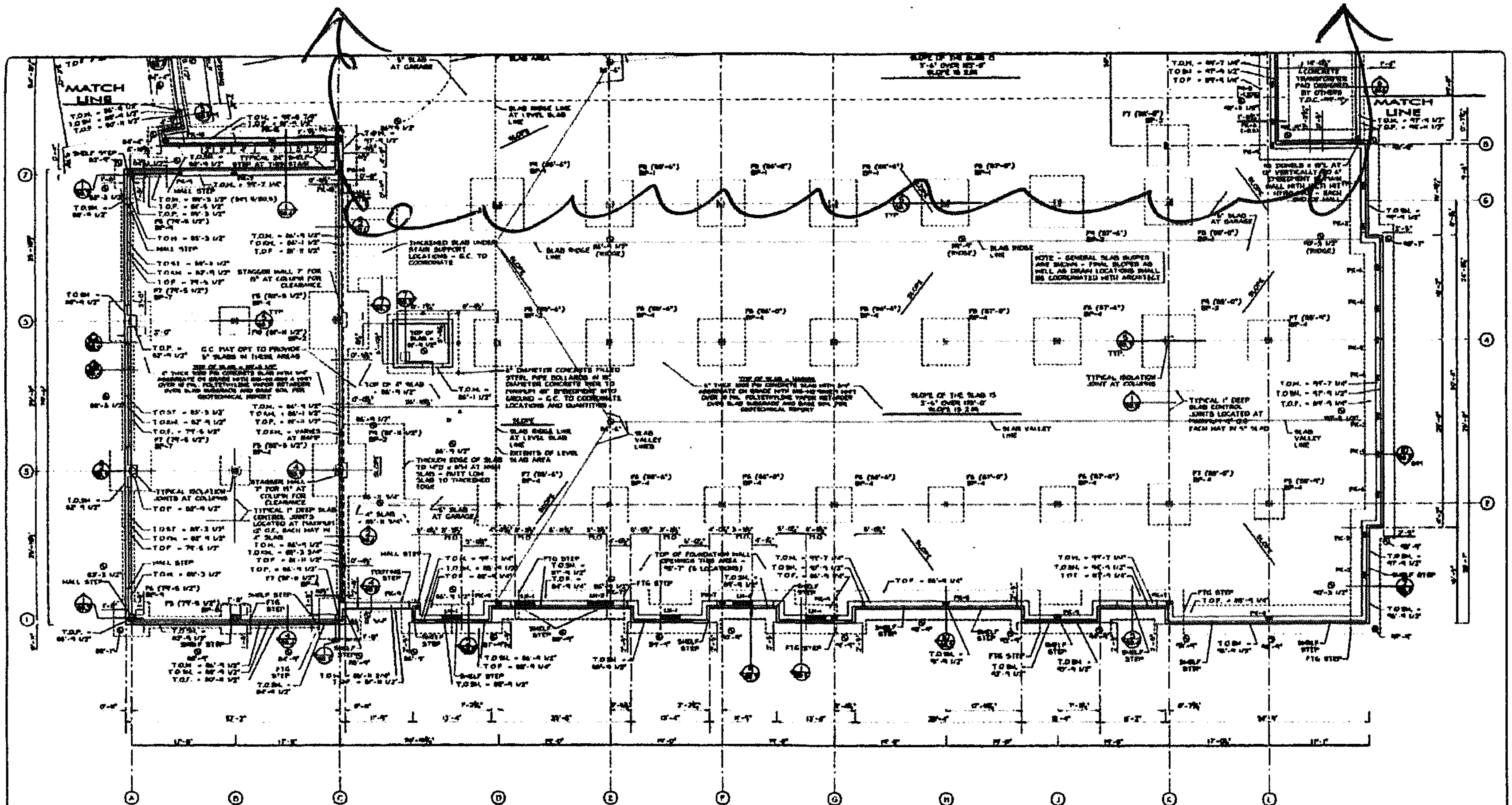
THE VILLAGE AT OCEAN GATE, LLC
c/o Atlas Investments Group
35 Fay Street Suite 5-2
Boston, MA 02126

THE BAY HOUSE
Biddle Street
Portland, Maine

FOUNDATION PLAN
Building 2
Scale: 1/8" = 1'-0"
Commission No.: 1403
Date: September 5, 2012

REVISIONS:

DRG. NO.
S0.1



FOUNDATION PLAN - BUILDING 1
Scale: 1/8" = 1'

FOOTING SCHEDULE			
FTG	SIZE	CAPACITY	REINFORCING
F3	3'x3'x12"	27 K	(3) #5 BARS
F4	4'x4'x14"	48 K	(4) #6 BARS
F5	5'x5'x16"	75 K	(5) #6 BARS
F6	6'x6'x18"	108 K	(6) #6 BARS
F7	7'x7'x20"	147 K	(7) #6 BARS
F8	8'x8'x22"	192 K	(8) #7 BARS
F9	9'x9'x24"	243 K	(9) #7 BARS
F10	10'x10'x26"	300 K	(10) #8 BARS

PROVIDE NUMBER OF BARS IN EACH DIRECTION, SPACED EVENLY, TIED IN MAT, AT 3" CLEAR FROM BOTTOM OF FOOTING (U.N.O.) - TOP STEEL SHALL BE 2" CLEAR FROM TOP OF FOOTING WHERE REQUIRED - FOOTING SIZES ARE BASED ON A 3000 PSF BEARING PRESSURE

NOTES:

1. G.C. SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS. G.C. MAY CONTACT ENGINEER IF DIMENSIONAL CLARIFICATION IS NEEDED DUE TO SCALE OF DRAWINGS.
2. UNDER SLAB AND THROUGH WALL UTILITIES TO BE COORDINATED BY CONTRACTOR. SEE 5/S0.2 FOR REINFORCING AT WALL OPENINGS.
3. BACKFILL ALL WALLS SIMULTANEOUSLY, BOTH SIDES, TO MINIMUM HEIGHT POSSIBLE.
4. REFER TO GEOTECHNICAL REPORT FOR ALL INFORMATION REGARDING EXCAVATION, BACKFILL, SUBGRADE PREPARATION, STRUCTURAL FILL, DRAINAGE, ETC. NOTE THAT A MINIMUM OF 12" OF 3/4" CRUSHED STONE UNDERLAIN BY NON-WOVEN GEOTEXTILE FABRIC IS REQUIRED PER GEOTECHNICAL REPORT.
5. BUILDING BEARS DIRECTLY ON FOUNDATIONS. PROVIDE A SMOOTH AND LEVEL SURFACE AT ALL BEARING LOCATIONS.
6. MAINTAIN MINIMUM 4'-6" FROST COVER FROM GRADE TO BOTTOM OF FOOTING AT ALL EXTERIOR FOOTING LOCATIONS. SEE GEOTECHNICAL REPORT.
7. G.C. SHALL COORDINATE ALL FINAL SLAB SLOPE AND INTERIOR FLOOR DRAIN REQUIREMENTS WITH ARCHITECT.
9. GRADE ELEVATIONS ARE BASED ON ARCHITECTURAL ELEVATION OF 100'-0" AT CIVIL DATUM OF 40.30'±.

LEGEND:

T.O.S. = TOP OF SLAB ELEVATION
T.O.W. = TOP OF WALL ELEVATION
T.O.ST. = TOP OF WALL STEP
T.O.SH. = TOP OF SHELF ELEVATION
T.O.K.W. = TOP OF KEYWAY
T.O.F. = TOP OF FOOTING ELEVATION
BP-# = BASE PLATE DESIGNATION (T.B.D.)
LR-# = LINTEL DESIGNATION
EP-# = EMBEDDED PLATE DESIGNATION
F# (#) = FOOTING DESIGNATION AND TOP OF FOOTING ELEVATION
⊕ = TOP OF GRADE/SLAB ELEVATION

BEAM POCKET SCHEDULE					
POCKET	BEAM	DEPTH/WIDTH	TO POCKET	TO BEAM	WIDTH
PK-1	[illegible]	7-7/8 / 4	[illegible]	49'-7 1/2"	12"
PK-2	[illegible]	9-7/8 / 4	[illegible]	49'-7 1/2"	12"
PK-3	[illegible]	[illegible] / 4	[illegible]	49'-7 1/2"	12"
PK-4	[illegible]	12-1/8 / 4	[illegible]	49'-7 1/2"	12"
PK-5	[illegible]	13-3/4 [illegible]			
PK-6	[illegible]	15-3/4 [illegible]			
PK-7	[illegible]	[illegible]			
PK-8	[illegible]	15-7/8 [illegible]			
PK-9	[illegible]	17-3/4 [illegible]			
PK-10	[illegible]	[illegible]			
PK-11	[illegible]	20-5/8			
PK-12	[illegible]	23-3/4			
PK-13	[illegible]	[illegible]			
PK-14	[illegible]	[illegible]			
PK-15	[illegible]	20-5/8			
PK-16	[illegible]	20-5/8			
PK-17	[illegible]	20-5/8			

ALL POCKETS SHALL HAVE A [illegible] POCKET WIDTH. SEE DETAIL [illegible] NOTE: ADJUST BEAM POCKET [illegible] CHANGES - NOTE CHANGE IN [illegible]

NOTE: FOOTING DIMENSIONS MAY CHANGE TO ACCOMMODATE THE GEOMETRY REQUIREMENTS OF THE RAMMED AGGREGATE PIERS AT APPLICABLE LOCATIONS. THIS SHALL BE DETERMINED BY PIER DESIGNER AND LATER MODIFIED BY JSN IF REQUIRED.

NOTE: SEE 2/S0.2 FOR WALL CONSTRUCTION JOINT DETAIL.
SEE 3/S0.2 FOR WALL CONTROL JOINT DETAIL.
SEE 4/S0.2 FOR CORNER REINFORCING DETAIL.
SEE 6/S0.2 FOR TYPICAL FOOTING STEP.

Project: The Bay House
Project No.: 1403-001
Date: 3-27-13
Technologist: G[illegible]

9/5/12

JSN Associates, Inc.

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Boston, MA 0210

THE BAY HOUSE
Middle Street
Portland, Maine

FOUNDATION PLAN
Building 1
Scale 1/8" = 1'-0"
Commission No. 1-03
Date September 5, 2011

REVISIONS:

DRG. NO.
S0.0

R. W. GILLESPIE & ASSOCIATES, INC.
Geotechnical Engineering • Geohydrology • Materials Testing Services

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86 Industrial Park Rd, Ste 4
Portsmouth, NH 03801
207-286-8008 • Fax 207-286-2882

Branch Office
200 International Dr, Ste 170
Portsmouth, NH 03801
603-427-0244 • Fax 603-430-2041

STEEL OBSERVATION REPORT

Project Name: THE BAY HOUSE
Date: 4-3-13
Client/Project #: 1403-001
Time on Site: 3.0
General Contractor: METRIC CONSTRUCTION
Mileage: 34
Welding Contractor: AMERICAN AERIAL
Tolls: —

Approved Documents: THE BAY HOUSE 9-5-12
Location/Observations: 2ND FLOOR FRAMING, ALONG STORE FRONT DETAIL 5 | ON SHEET 1.5

TYPE OF WORK OBSERVED

Bolted Connections: _____
☐ Visually checked and found complete

Shear Connections: _____
☐ Visually checked and found acceptable

Welded Connections: FILLET WELDS FOR FACE PLATE & ANGLE ENDS
☐ Visually checked and found acceptable

Decking (Mezzanine/Roof): _____
☐ Visually checked and found acceptable

Joist Welds/Joist Bridging: _____
☐ Visually checked and found acceptable

Puddle Welds:

☐ Visually checked and found acceptable

Screw Attachments:

☐ Visually checked and found complete

Other:

☐ Visually checked and found acceptable

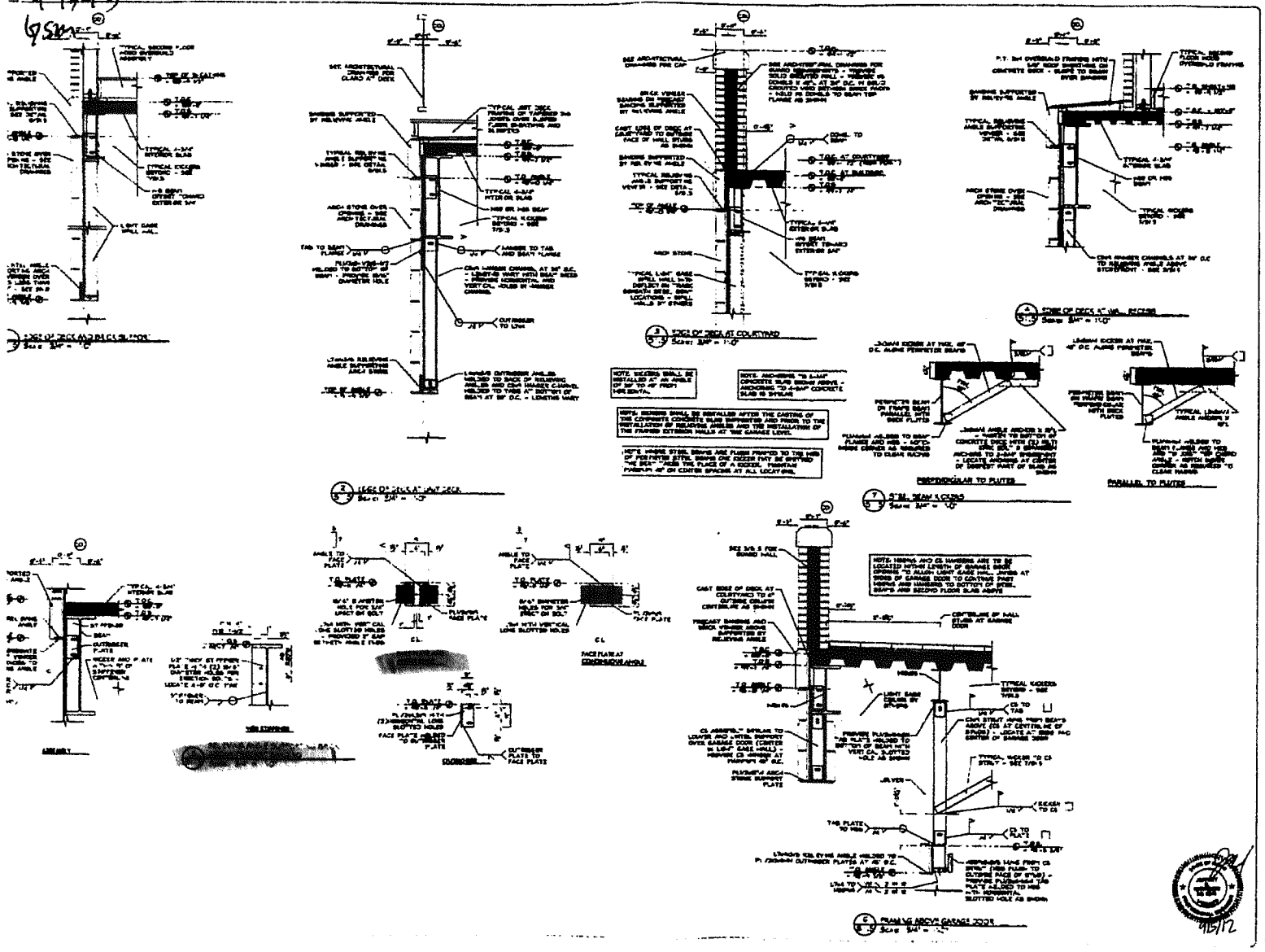
☐Visually checked and found complete

RWG&A personnel are represented on site solely to observe work of the identified contractors, to form opinions about the adequacy of those operations, and to report those opinions to RWG&A's client. The presence and activities of our field representative do not relieve any contractor from their obligations to meet contractual requirements. The contractor retains sole responsibility of site safety and the methods, operations, and sequences of construction.	Observations were verbally reported to: BOB LACHAPELLE Construction Technologist/CWI: George S Morrell Print Name/Title Certification #:

MTG

George S Morrell
CWI 04050311
QC1 EXP. 5/1/2013

THE BAY HOUSE
4-17-13
GSM



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Boston, MA 02118

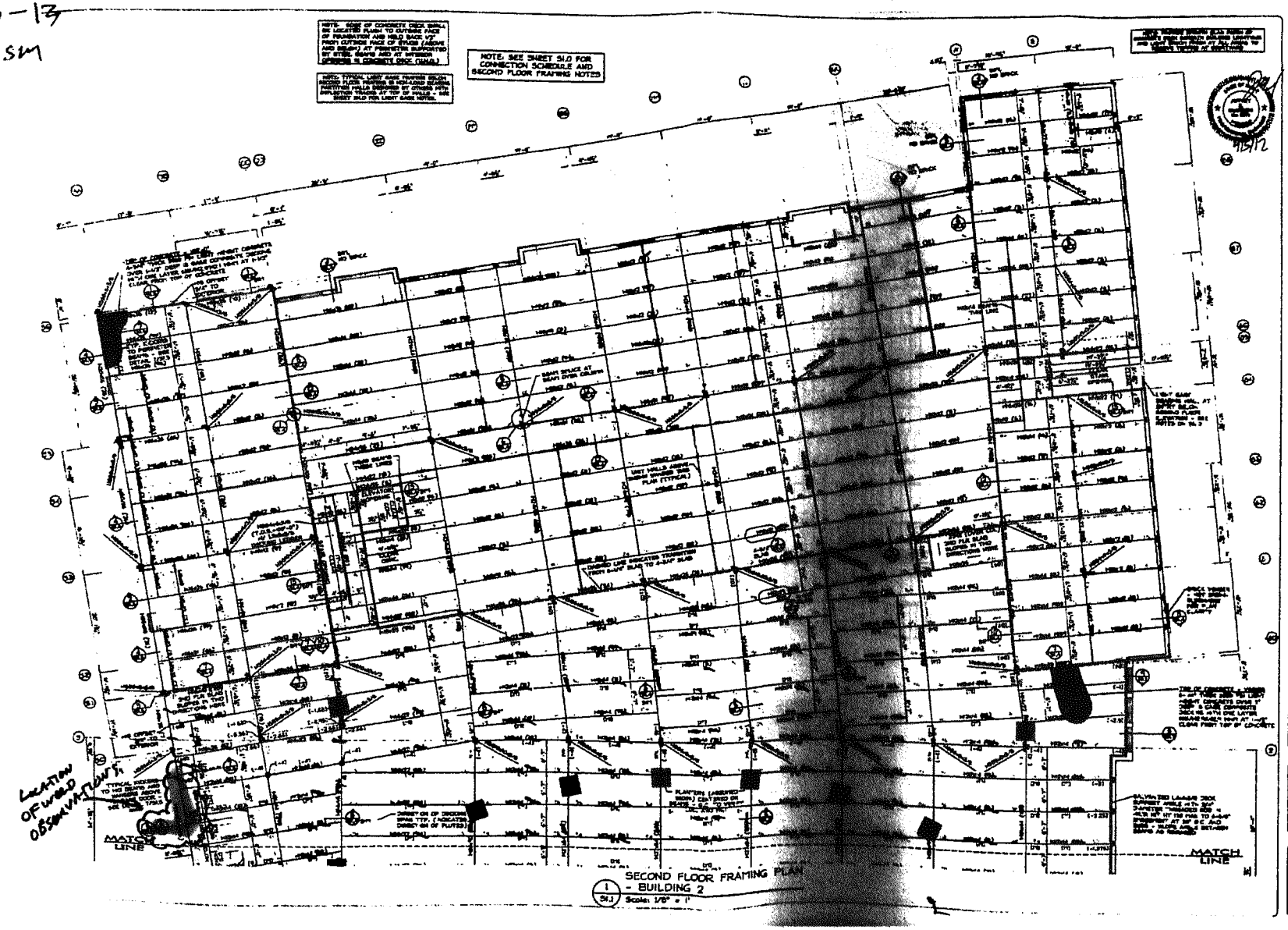
THE BAY HOUSE
Middle Street
Portland, Maine

SECOND FLOOR DETAILS
Building 1 and Building 2
Scale: As Noted
Commission No. 8-05
Date: September 5, 2012

REVISIONS:

DRG. NO.
S1.5

THE BAY HOUSE
4-3-13
GSM



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THE BAY HOUSE
Middle Street
Portland, Maine

GARAGE DECK FRAMING
Building 2
Scale: 1/8" = 1'-0"
Commission No. P-08
Date: September 5, 2012

REVISIONS:

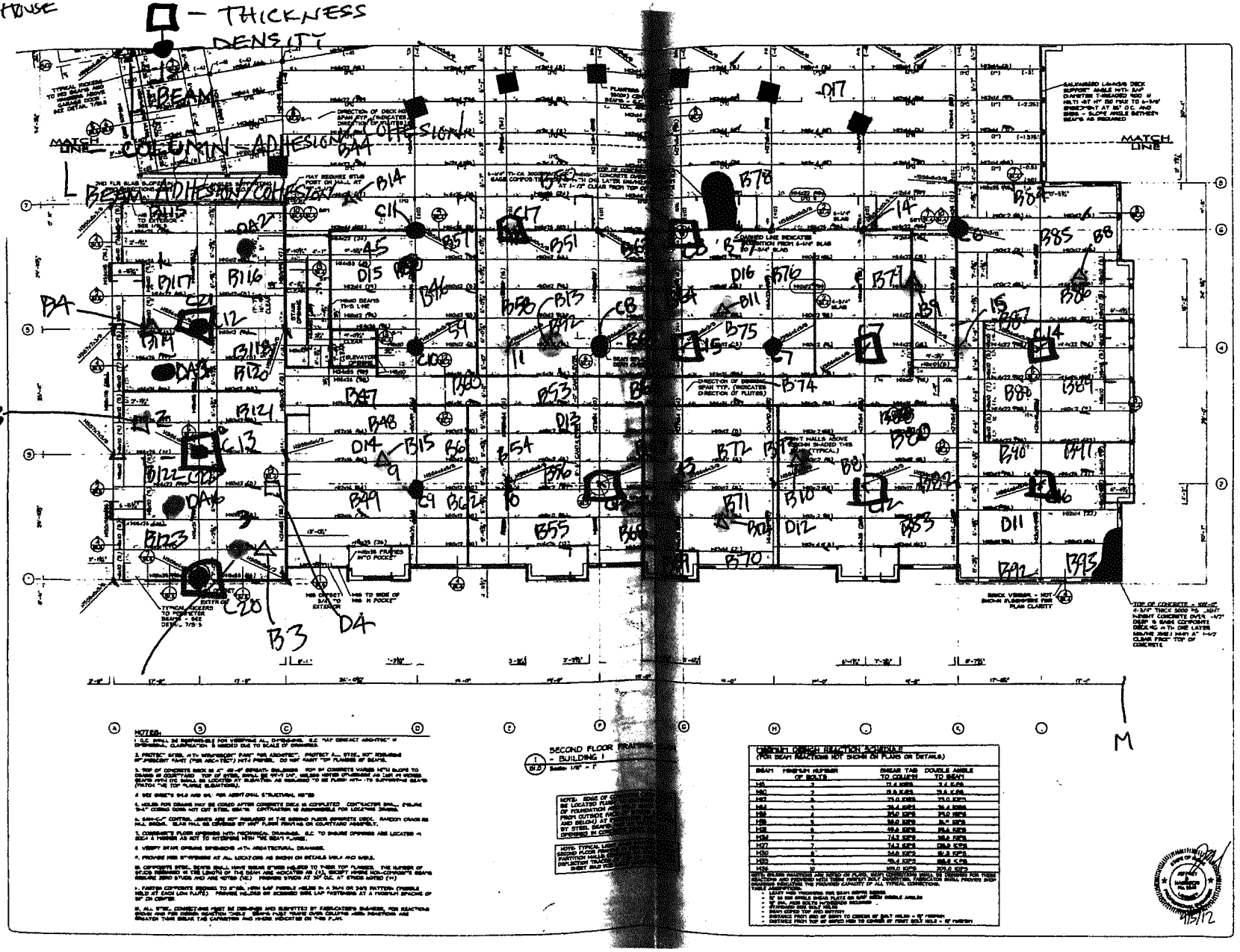
DRG. NO.
S1.1

APPENDIX E

FIREPROOFING

Summary Report of Special Inspections
The Bay House

THE BAY HOUSE
1403-001
GSM



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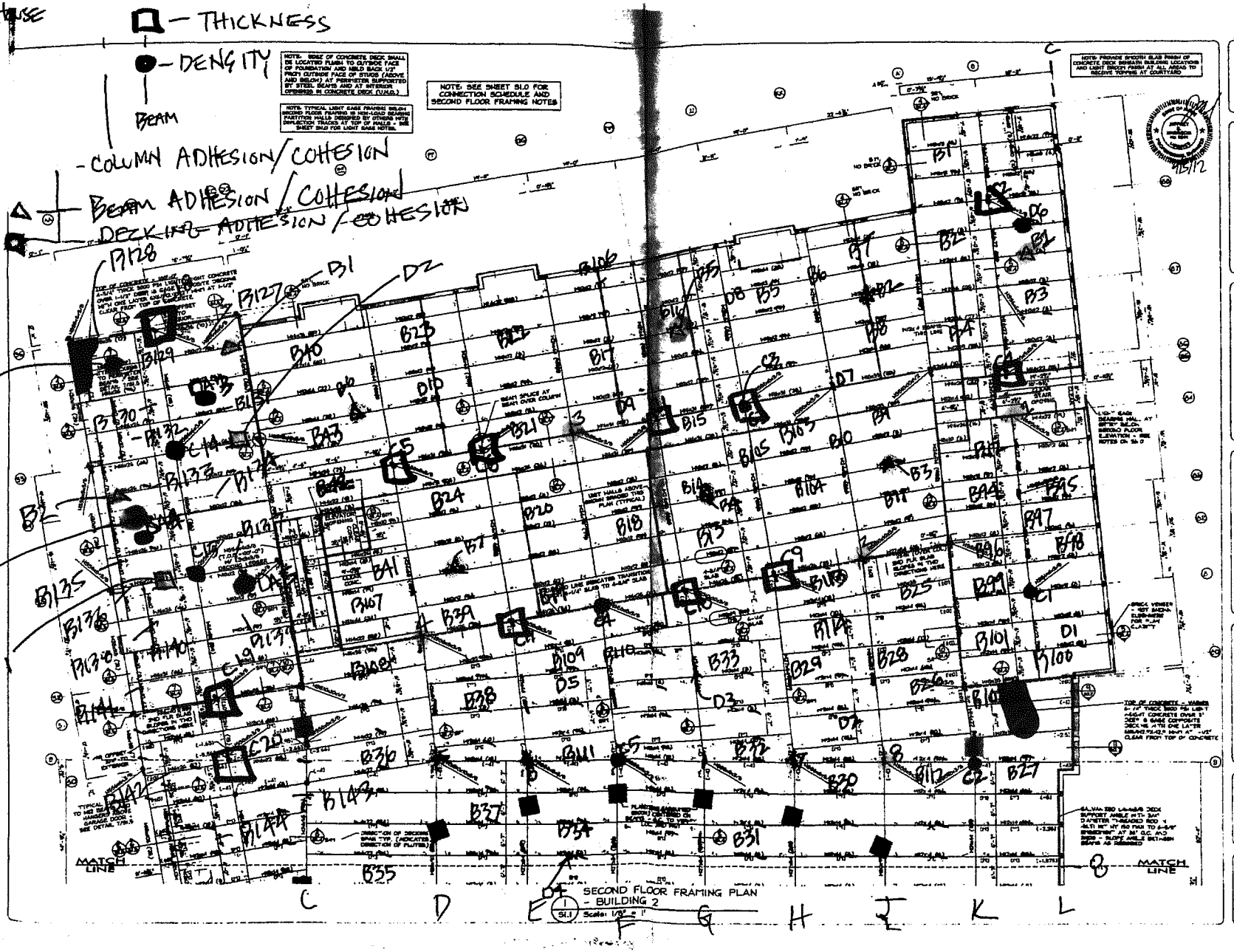
THE BAY HOUSE
Middle Street
Portland, Maine

GARAGE DECK FRAMING
Building 1
Scale: 1/8" = 1'-0"
Commission No: 1403
Date: September 5, 2012

REVISIONS:

DRG. NO.
S1.0

THE BAY HOUSE
1903-001
GSM



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Boston, MA 02118

THE BAY HOUSE
Middle Street
Portland, Maine

GARAGE DECK FRAMING
Building 2
Scale: 1/8" = 1'-0"
Commission No.: 1-08
Date: September 5, 2012

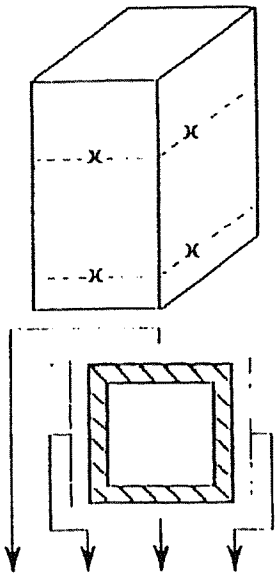
REVISIONS

DRG. NO.
S1.1

CAFCO 400 2 HOUR

A.4.2 Thickness of SFRM on Tube & Pipe Columns

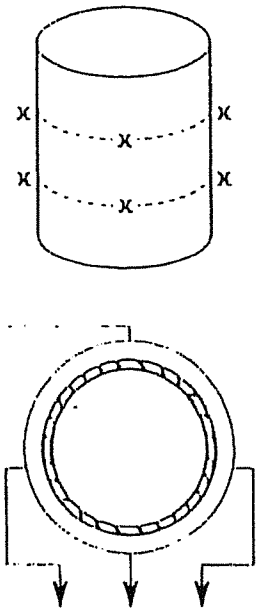
Take a minimum of 4 measurements at each end of 12-in. length.



	Location	1	2	3	4	Total	Average
C1	HH/82	20/16	16/16	20/16	15/16	71/16	18/16
	BLDG 2	20/16	16/16	20/16	16/16	72/16	18/16
C2	B/88	20/16	18/16	15/16	16/16	69/16	17/16
	BLDG 2	19/16	19/16	15/16	16/16	69/16	17/16
C3	JJ/86	19/16	17/16	16/16	15/16	67/16	17/16
	BLDG 2	20/16	18/16	16/16	15/16	69/16	17/16

Date 7-1-13

Inspector GSM



Location	1	2	3	4	Total	Average

Average Required 16/16

Average Recorded 18/16, 17/16, 17/16 MEETS SPECIFICATION

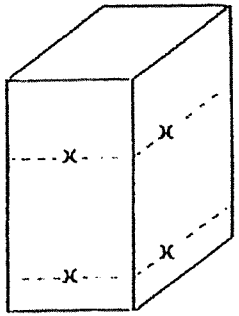
C1 C2 C3

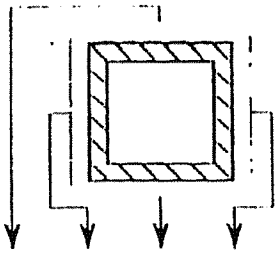
VMTG

2 Hour CAFCO 400

A.4.2 Thickness of SFRM on Tube & Pipe Columns

Take a minimum of 4 measurements at each end of 12-in. length.

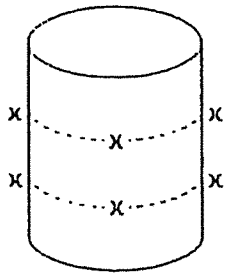


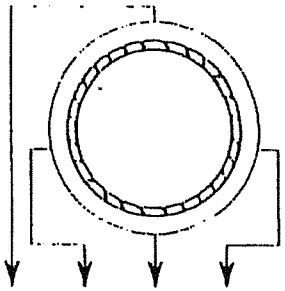


Location	1	2	3	4	Total	Average
C4 B/B5	20/16	19/16	18/16	20/16	77/16	19/16
BLDG 2	20/16	18/16	17/16	20/16	75/16	19/16
C5 EE/B2	19/16	17/16	15/16	20/16	71/16	18/16
BLDG 2	20/16	17/16	15/16	20/16	72/16	18/16
C6 FF/B6	20/16	19/16	19/16	18/16	76/16	19/16
BLDG 2	20/16	19/16	19/16	19/16	77/16	19/16

Date 7-1-13

Inspector GSM





Location	1	2	3	4	Total	Average

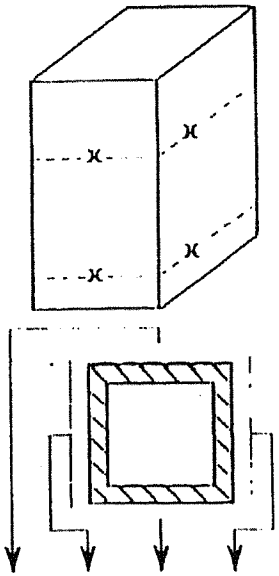
Average Required 16/16

Average Recorded 19/16 (C4), 18/16 (C5), 19/16 (C6) MEETS SPECIFICATION

MTG

A.4.2 Thickness of SFRM on Tube & Pipe Columns

Take a minimum of 4 measurements at each end of 12-in. length.

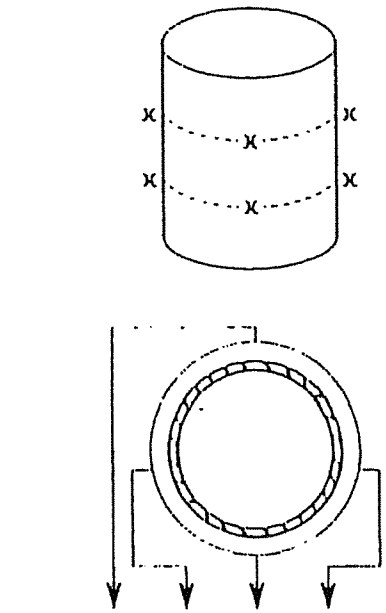


Location	1	2	3	4	Total	Average
C7 J/4	17/16	19/16	15/16	17/16	68/16	17/16
BLDG 1	20/16	18/16	17/16	18/16	73/16	18/16
C8 G/16	20/16	17/16	17/16	20/16	74/16	19/16
BLDG 1	20/16	19/16	19/16	19/16	76/16	19/16
C9 KK/82	19/16	15/16	20/16	20/16	79/16	19/16
BLDG 2	17/16	18/16	16/16	16/16	67/16	17/16

Date 7-1-13

Inspector GSM

2 Hour CAFCO 400



Location	1	2	3	4	Total	Average

Average Required 16/16

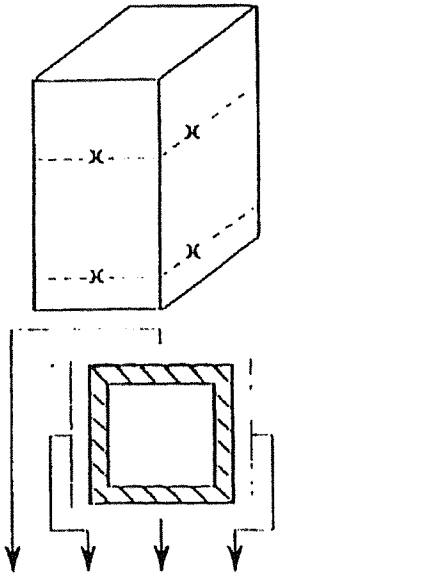
Average Recorded 18/16, 19/16, 18/16 MEETS SPECIFICATION

C7 C8 C9

MFC

A.4.2 Thickness of SFRM on Tube & Pipe Columns

Take a minimum of 4 measurements at each end of 12-in. length.

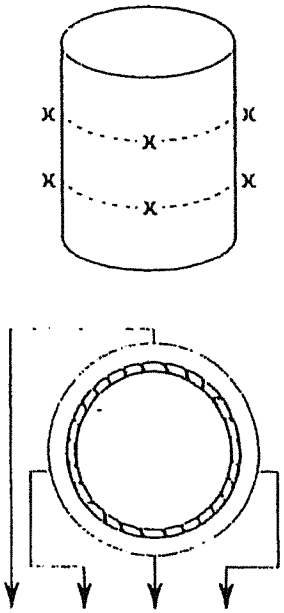


LOCATION	1	2	3	4	TOTAL	AVERAGE
C7 J/4	17/16	19/16	15/16	17/16	68/16	17/16
BUKT 1	20/16	18/16	17/16	16/16	71/16	18/16
C8 G/6	20/16	17/16	17/16	20/16	74/16	19/16
BUKT 1	20/16	18/16	19/16	19/16	76/16	19/16
C9 KK/82	19/16	15/16	20/16	20/16	74/16	19/16
	17/16	18/16	16/16	16/16	67/16	17/16

Date 7-1-13

Inspector GSM

2 Hour CAFCO 400



LOCATION	1	2	3	4	TOTAL	AVERAGE

Average Required 16/16

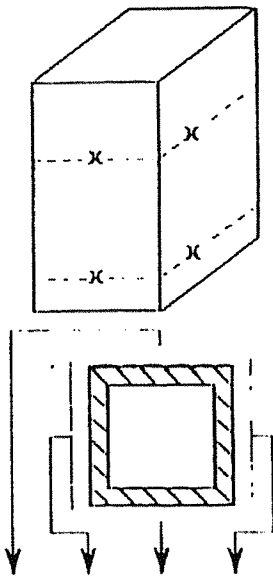
Average Recorded 18/16, 19/16, 18/16 MEETS SPECIFICATION

C7 C8 C9

MTO

A.4.2 Thickness of SFRM on Tube & Pipe Columns

Take a minimum of 4 measurements at each end of 12-in. length.

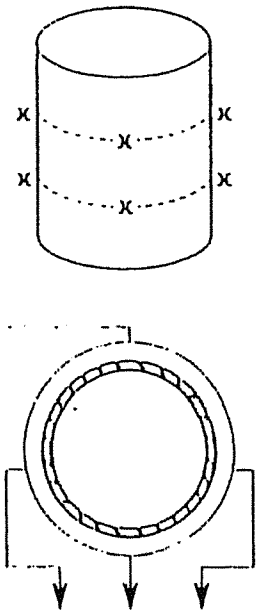


LOCATION	1	2	3	4	TOTAL	AVERAGE
C10 HH/B6	20/16	17/16	19/16	19/16	75/16	19/16
BLDG 2	18/16	18/16	17/16	20/16	73/16	18/16
C11 FF/B6	19/16	19/16	17/16	20/16	75/16	19/16
BLDG 2	20/16	18/16	16/16	20/16	74/16	19/16
C12 J/2	17/16	16/16	19/16	19/16	71/16	18/16
BLDG 1	19/16	17/16	18/16	20/16	74/16	19/16

Date 7-1-17

Inspector GSM

2 Hour CAFCO 400



LOCATION	1	2	3	4	TOTAL	AVERAGE

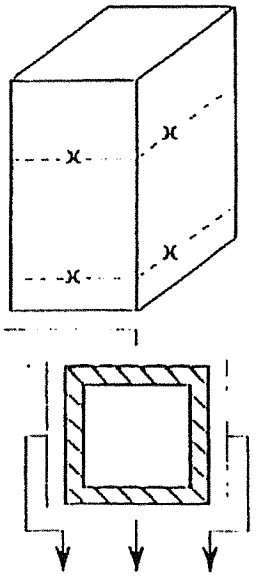
Average Required 16/16

Average Recorded 19/16, 19/16, 19/16 MEETS SPECIFICATION

C10 C11 C12

A.4.2 Thickness of SFRM on Tube & Pipe Columns

Take a minimum of 4 measurements at each end of 12-in. length.

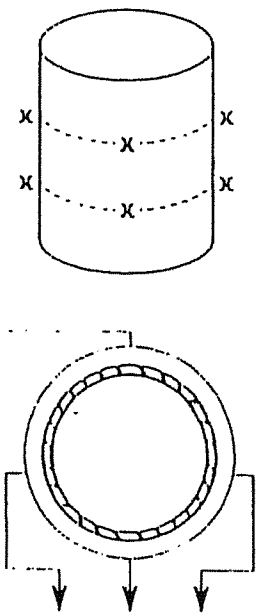


LOCATION	1	2	3	4	TOTAL	AVERAGE
C13 F/2	20/16	20/16	19/16	20/16	79/16	20/16
BLDG 1	19/16	18/16	19/16	19/16	75/16	19/16
C14 L/4	18/16	17/16	15/16	20/16	70/16	18/16
BLDG 1	17/16	16/16	16/16	20/16	69/16	17/16
C15 G/4	18/16	16/16	19/16	20/16	67/16	17/16
BLDG 1	19/16	18/16	17/16	18/16	72/16	18/16

Date 7-1-13

Inspector GSM

2 Hour CAFCO 400



LOCATION	1	2	3	4	TOTAL	AVERAGE

Average Required 16/16

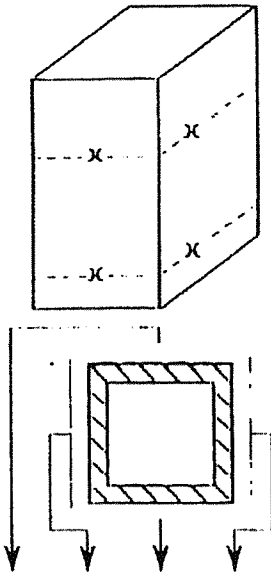
Average Recorded 20/16 (C13), 18/16 (C14), 18/16 (C15) MEETS SPECIFICATION

MTC

2 Hour CAFCO 400

A.4.2 Thickness of SFRM on Tube & Pipe Columns

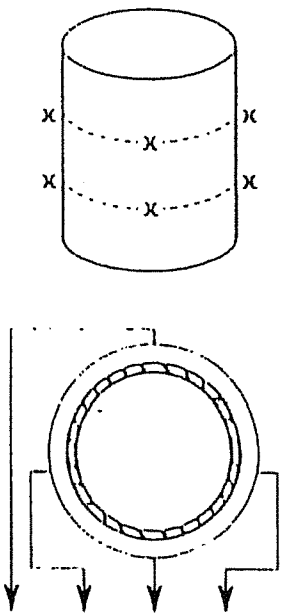
Take a minimum of 4 measurements at each end of 12-in. length.



Location	1	2	3	4	Total	Average
C16 L/2	19/16	20/16	18/16	17/16	74/16	19/16
BLDG 1	18/16	19/16	19/16	19/16	75/16	19/16
C17 E/6	20/16	18/16	19/16	17/16	74/16	19/16
BLDG 1	16/16	17/16	20/16	18/16	71/16	18/16

Date 7-1-13

Inspector GJSM



Location	1	2	3	4	Total	Average

Average Required 16/16

Average Recorded 19/16, 19/16 MEETS SPECIFICATION

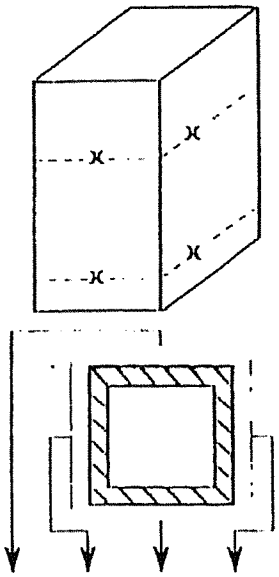
C16 C17

MTG

3 Hour CAFCO 300

A.4.2 Thickness of SFRM on Tube & Pipe Columns

Take a minimum of 4 measurements at each end of 12-in. length.

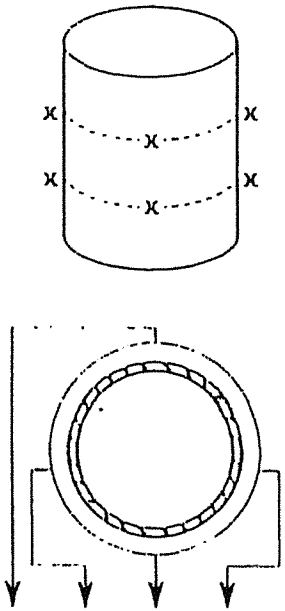


RETAIL 1

LOCATION		1	2	3	4	TOTAL	AVERAGE
C18	BB/	27/16	26/16	25/16	24/16	104/16	26/16
	56	26/16	28/16	26/16	25/16	108/16	27/16
C19	BB/	26/16	27/16	25/16	29/16	105/16	26/16
	51	26/16	27/16	26/16	28/16	107/16	27/16
C20	BB/	27/16	27/16	25/16	26/16	105/16	26/16
	50	26/16	28/16	27/16	27/16	108/16	27/16

Date 7-18-13

Inspector GSM



LOCATION	1	2	3	4	TOTAL	AVERAGE

Average Required 25/16 →

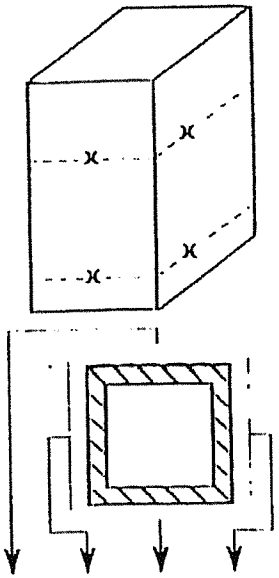
Average Recorded 27/16 (C18), 27/16 (C19), 27/16 (C20) MEETS SPECIFICATION

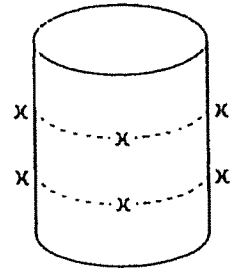
MIF

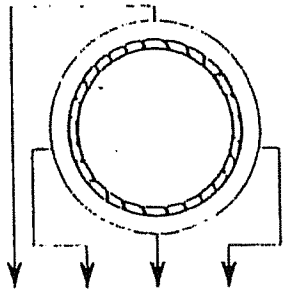
3 Hour CAFCO 300

A.4.2 Thickness of SFRM on Tube & Pipe Columns

Take a minimum of 4 measurements at each end of 12-in. length.







RETAIL 2

	Location	1	2	3	4	Total	Average
C20	B/1	25/16	27/16	26/16	24/16	102/16	25/16
	1	28/16	26/16	27/16	23/16	104/16	26/16
	B/3	27/16	26/16	27/16	25/16	105/16	26/16
C21	5	23/16	25/16	29/16	27/16	103/16	26/16
C22	B/3	25/16	27/16	26/16	27/16	101/16	25/16
		24/16	24/16	27/16	28/16	103/16	26/16

Date 7-18-13

Inspector GSM

	Location	1	2	3	4	Total	Average

Average Required 25/16

Average Recorded 26/16 (C20) 26/16 (C21) 26/16 (C22)

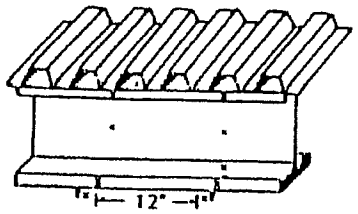
MEETS SPECIFICATION

MTG

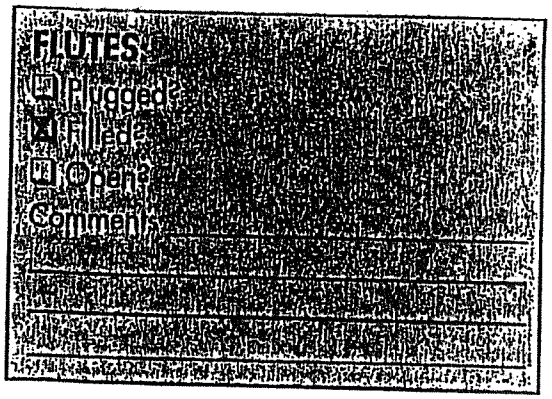
2 HOUR CAFCO 400

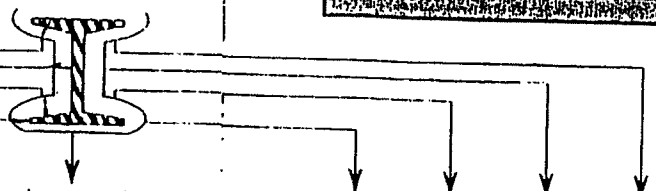
B1-10X12-13/16

A.2 Thickness of SFRM on Beam



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





B1 A-B/ 88.5

Location	1	2	3	4*	5	6*	7	8	9	Total	Average
	1 00	15/16	15/16	7/16	14/16	9/16	10/16	1 00	14/16	99/16	14/16
	1 1/16	13/16	15/16	8/16	14/16	8/16	12/16	1 1/16	14/16	10 2/16	15/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Beam:
Average Required 13/16
Average Recorded 14/16 -1

Flange Tip (W/D):
Average Required 7/16 -1
Average Recorded 8/16 -1

Date 7-2-13 Inspector GSM

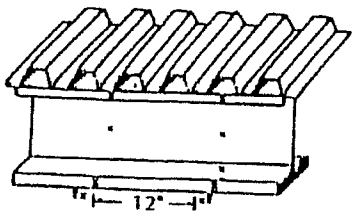
B1

MEETS SPECIFICATION

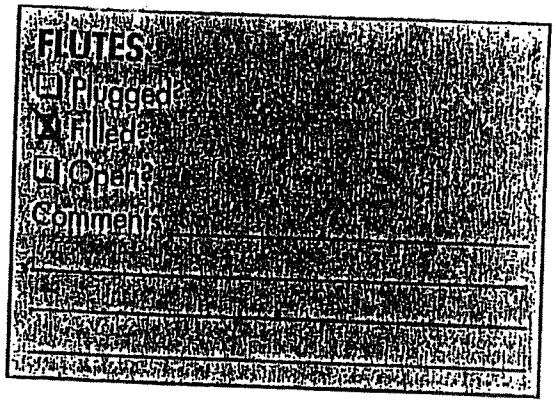
B1

2 Hour CAFCO 400

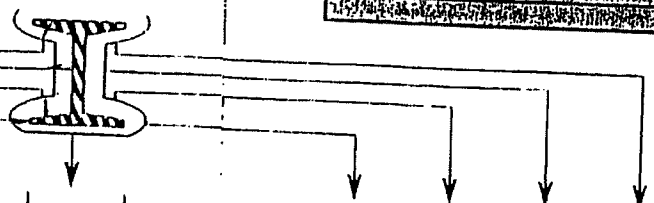
A.2 Thickness of SFRM on Beam



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



B2 W10X12 — 13/16
B3 W12X14 - 13/16
B4 W12X19 - 12/16



LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
32 A-B/	1	10/16	12/16	7/16	1 1/16	6/16	1 1/16	15/16	14/16	85 1/16	14/16
87.6	1 1/16	11/16	13/16	6/16	1 1/16	8/16	1 1/16	15/16	14/16	104/16	15/16
34 B-C/	1 1/16	10/16	12/16	7/16	1 1/16	6/16	1 1/16	13/16	14/16	100/16	14/16
86.8	1 1/16	11/16	12/16	6/16	1 1/16	7/16	1 1/16	14/16	12/16	99/16	14/16
B4 A-B/	100	13/16	12/16	7/16	100	6/16	14/16	12/16	12/16	95 1/16	14/16
86.2	100	14/16	12/16	7/16	100	7/16	14/16	13/16	13/16	98/16	14/16

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

TOTAL

AVERAGE

AVERAGE*

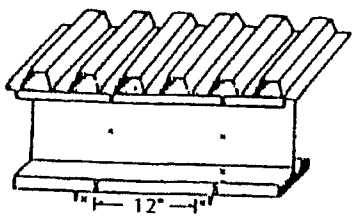
Date 7-2-13 Inspector GSM

Beam:
Average Required 13/16, 13/16, 12/16
Average Recorded 15/16, 14/16, 14/16
Flange Tip (W/D):
Average Required 7/16, 7/16, 7/16
Average Recorded 7/16, 7/16, 7/16

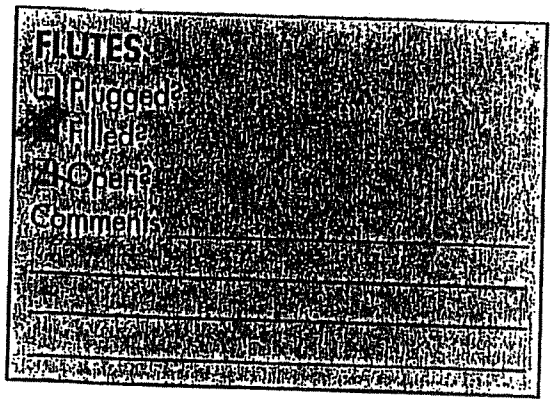
B2 B3 B4 MEETS SPECIFICATION

2 Hour CAFCO 400

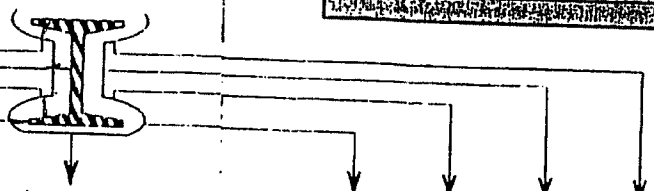
A.2 Thickness of SFRM on Beam



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



B5 W10X12 — 13/16
B6 W12X44 — 10/16
B7 W12X14 — 13/16



LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
B5 W-KK	14/16	15/16	12/16	7/16	16/16	7/16	14/16	13/16	16/16	103/16	15/16
55.2	14/16	14/16	11/16	7/16	16/16	7/16	13/16	13/16	16/16	98/16	14/16
B6 KK/55	14/16	12/16	9/16	7/16	14/16	7/16	10/16	12/16	14/16	85/16	12/16
	14/16	12/16	9/16	7/16	14/16	7/16	11/16	14/16	14/16	88/16	13/16
KK-A/	14/16	15/16	13/16	7/16	16/16	7/16	13/16	14/16	15/16	104/16	15/16
7 55.5	14/16	15/16	13/16	7/16	16/16	7/16	14/16	15/16	15/16	104/16	15/16

Note: "Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula.

TOTAL

AVERAGE

AVERAGE*

Date 7-2-13 Inspector GSM

Beam:

Average Required 13/16, 10/16, 13/16

Average Recorded 14/16, 12/16, 15/16

Flange Tip (W/D):

Average Required 7/16, 7/16, 7/16

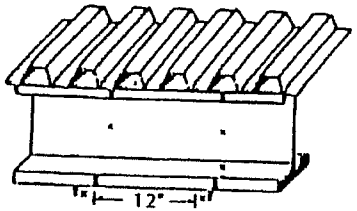
Average Recorded 7/16, 7/16, 7/16

B5 B6 B7 MEETS SPECIFICATION

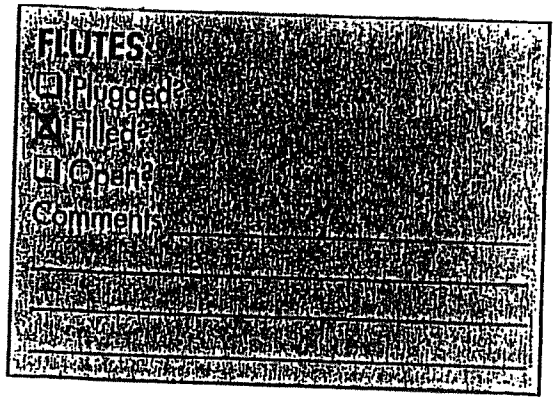
2 Hour CAFCO 400

B8 W12 x 14 — 13/16

A.2 Thickness of SFRM on Beam



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



38

LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
KK-N	1 1/16	15/16	14/16	6/16	1 1/16	7/16	13/16	15/16	16/16	101 1/16	15/16
SA.S	1	1 3/16	15/16	7/16	1 1/16	7/16	1 3/16	16/16	16/16	106/16	15/16

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

TOTAL

AVERAGE

Beam:
Average Required 13/16
Average Recorded 15/16

AVERAGE*

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

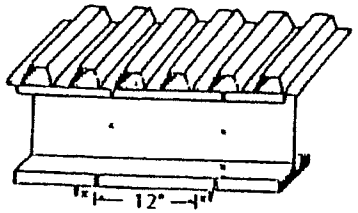
MEETS SPECIFICATION

Date 7-2-13 Inspector GSM

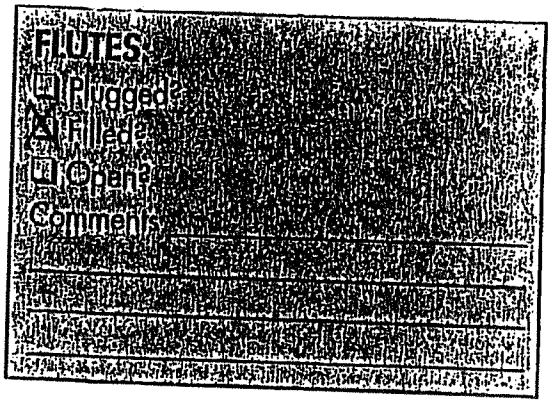
2 Hour CAFCO 400

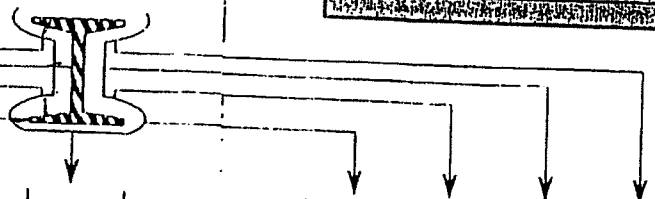
B9 W10X12 - 13/16
B10 W24X55 - 9/16
B11 W10X12 - 13/16

A.2 Thickness of SFRM on Beam



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





LOCATION	1	2	3	4	5	6	7	8	9	Total	Average
39 KK-A/84	1 15/16	15/16	13/16	5/16	16/16	5/16	14/16	15/16	14/16	109/16	16/16
	1 14/16	15/16	13/16	7/16	16/16	6/16	1 14/16	14/16	16/16	111/16	16/16
310 KK/83-84	17/16	10/16	9/16	5/16	13/16	5/16	17/16	12/16	11/16	81/16	12/16
	13/16	10/16	9/16	9/16	13/16	5/16	13/16	12/16	11/16	81/16	12/16
311 KK-A/82-83	1	10/16	14/16	8/16	15/16	8/16	13/16	16/16	16/16	100/16	14/16
	15/16	12/16	14/16	7/16	16/16	7/16	13/16	15/16	14/15	100/16	14/16

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

TOTAL

AVERAGE

AVERAGE*

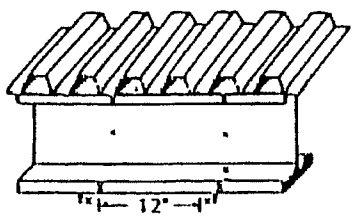
Date 7/2/99 Inspector GSM

Beam:

	B9	B10	B11
Average Required	13/16	9/16	13/16
Average Recorded	16/16	12/16	14/16
Flange Tip (W/D):			
Average Required	7/16	4 1/16	7/16
Average Recorded	7/16	5/16	8/16 MEETS SPECIFICATION

2 Hour CAFCO 400

A.2 Thickness of SFRM on Beam

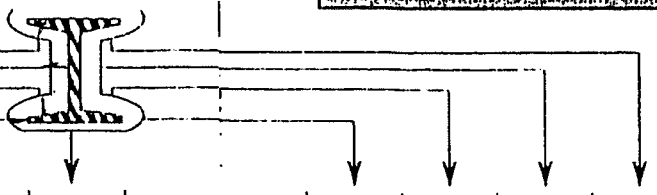


Take 9 measurements at each end of 12-in. length

FLUTES
- [ ] Plugged
- [x] Filled
- [ ] Open

Comments:

W12 x 10 x 12 - 13/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B12 A-B1	17/16	1 1/16	12/16	7/16	1 1/16	7/16	16/16	16/16	17/16	112/16	16/16
83-84	17/16	1 1/16	10/16	9/16	15/16	9/16	16/16	16/16	16/16	107/16	15/16

Note: *Average the Flange Tip measurements separately, where reduced thicknesses are applied under W/D formula.

TOTAL

AVERAGE

AVERAGE*

Beam:
Average Required 13/16
Average Recorded 16/16

Flange Tip (W/D):
Average Required 7/16
Average Recorded 8/16

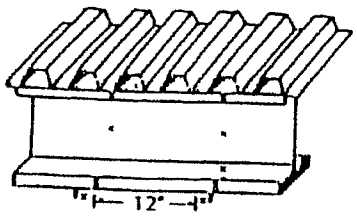
MEETS SPECIFICATION

Date 7-2-12 Inspector GSM

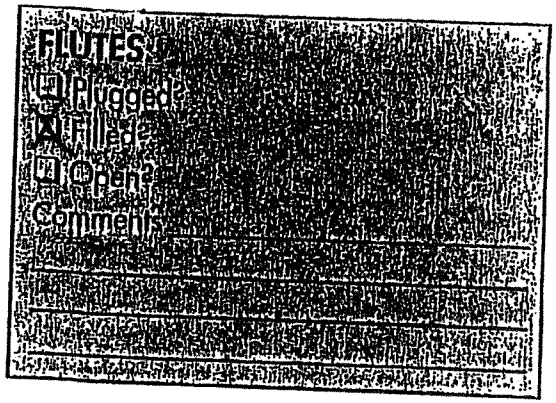
MTB

2 Hour CAFCO 400

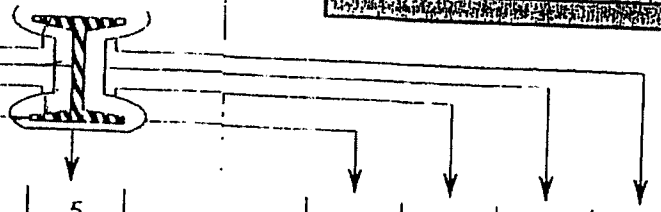
A.2 Thickness of SFRM on Beam



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



B13 W10X12 – 13/16
B14 W24X55 – 9/16
B15 W16X31 – 11/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B13 W-HH/	16/16	11/16	15/16	7/16	11/16	8/16	12/16	14/16	16/16	101/16	14/16
S2.2	16/16	11/16	15/16	7/16	11/16	8/16	13/16	16/16	16/16	104/16	15/16
-HH/	12/16	13/16	12/16	5/16	13/16	5/16	10/16	13/16	13/16	86/16	12/16
B14 S2-S3	13/16	13/16	11/16	5/16	13/16	6/16	12/16	13/16	13/16	88/16	13/16
JS-HH/	15/16	14/16	15/16	7/16	15/16	5/16	15/16	15/16	15/16	104/16	15/16
S3-S4	15/16	15/16	15/16	7/16	15/16	6/16	15/16	15/16	15/16	104/16	15/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-2-13 Inspector GSM

24

Beam: B13 B14 B15

Average Required 13/16 9/16 11/16

Average Recorded 15/16 12/16 15/16

Flange Tip (W/D):

Average Required 7/16 4/16 4/16

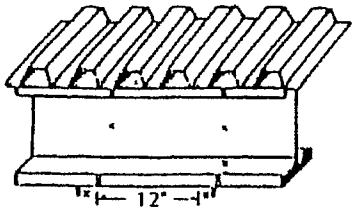
Average Recorded 8/16 5/16 6/16 MEETS SPECIFICATIONS

25

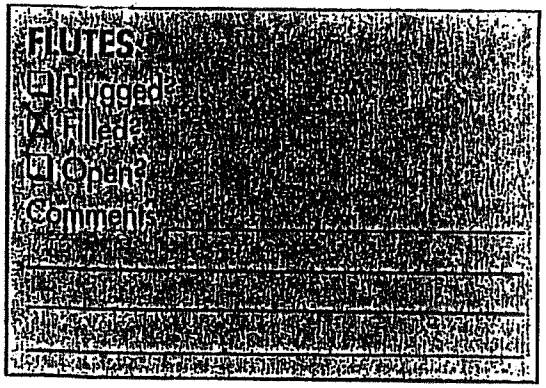
2 Hour CAFCO 400

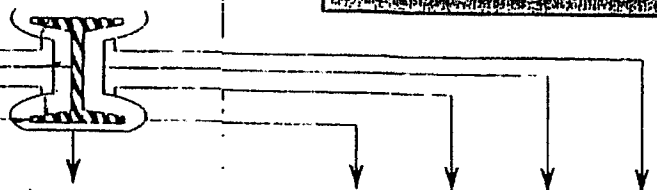
B16 W 10 X 12 – 13/16

A.2 Thickness of SFRM on Beam



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





LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
316 HH JJ	17/16	15/16	12/16	9/16	17/16	7/16	17/16	15/16	14/16	109 1/16	16/16
55-55.5	17/16	19/16	11/16	8/16	16/16	9/16	17/16	16/16	16/16	105 1/16	15/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Beam:
Average Required 13/16
Average Recorded 15/16

Flange Tip (W/D):
Average Required 7/16
Average Recorded 8/16

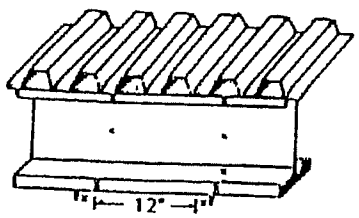
MEETS SPECIFICATION

Date 7-2-13 Inspector GSM

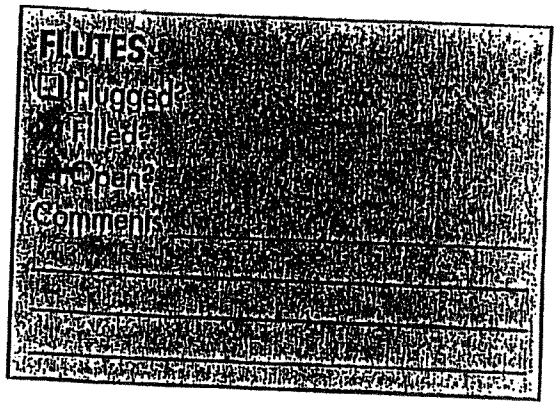
MTB

2 Hour CAFCO 400

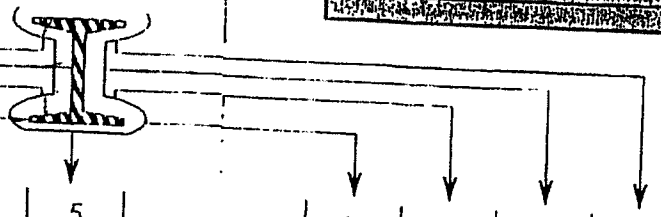
A.2 Thickness of SFRM on Beam



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



B17 W10X12 – 13/16
B18 W10X12 – 13/16
B19 W16X26 12/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
37 GG-HH'	1 1/16	1 1/16	13/16	7/16	1 1/16	8/16	16/16	1 1/16	16/16	11 13/16	16/16
55	16/16	12/16	15/16	8/16	16/16	8/16	16/16	16/16	16/16	10 7/16	15/16
GG-HH'	16/16	15/16	14/16	7/16	12/16	7/16	15/16	16/16	16/16	10 4/16	15/16
18 52-53	1 1/16	15/16	14/16	9/16	12/16	7/16	16/16	14/16	10/16	9 8/16	14/16
19 FF-GG'	16/16	16/16	15/16	7/16	10/16	7/16	16/16	16/16	16/16	10 0/16	14/16
52	16/16	12/16	14/16	7/16	10/16	7/16	16/16	14/16	15/16	9 8/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

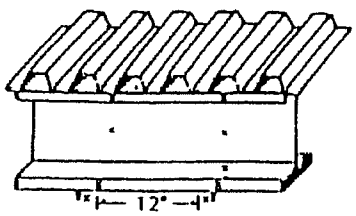
Date 7-3-13 Inspector GSM

Beam:	B17	B18	B19
Average Required	13/16	13/16	12/16
Average Recorded	1	14/16	14/16
Flange Tip (W/D):			
Average Required	7/16	7/16	5/16
Average Recorded	8/16	7/16	7/16

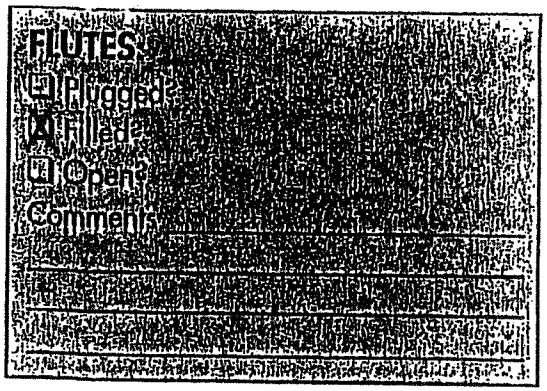
MEETS SPECIFICATION

2 Hour Cafco 400

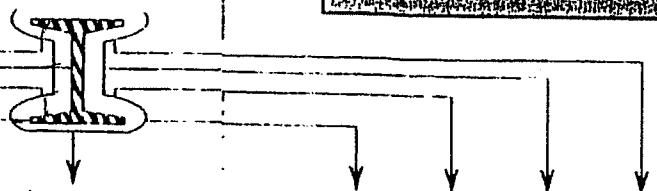
A.2 Thickness of SFRM on Beam



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



B20 W10X12 - 13/16



Location	1	2	3	4*	5	6*	7	8	9	Total	Average
320 FF-66	15/16	14/16	10/16	7/16	1"/16	8/16	12/16	16/16	16/16	100/16	14/16
G2.9	15/16	14/16	10/16	9/16	16/16	7/16	11/16	15/16	11/16	98/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Beam:
Average Required 13/16
Average Recorded 14/16

Flange Tip (W/D):
Average Required 7/16
Average Recorded 8/16

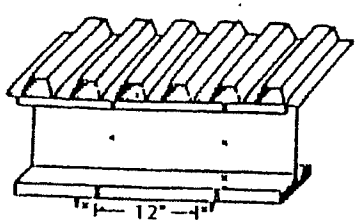
MEETS SPECIFICATION

Date 7-3-13 Inspector GSM

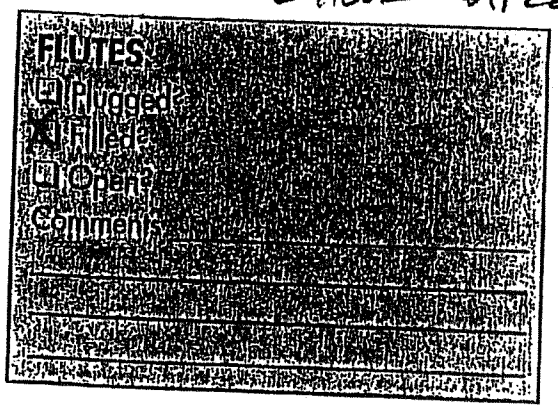
MEG

2 Hour CAFCO 400

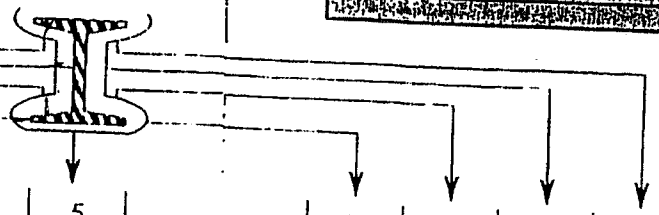
A.2 Thickness of SFRM on Beam



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



B21 W16X31 - 11/16
B22 W10X12 - 13/16
B23 W10X12 - 13/16



Location	1	2	3	4"	5	6"	7	8	9	Total	Average
B21 FF-GG/	15/16	15/16	10/16	6 1/16	15/16	7/16	15/16	15/16	14/16	99 1/16	14/16
GA	15/16	15/16	11/16	7/16	15/16	6/16	14/16	15/16	14/16	99 1/16	4/16
B22 FF-GG/	11/16	15/16	11/16	9/16	12/16	9/16	15/16	14/16	16/16	100/16	14/16
55.5-56	16/16	16/16	12/16	8/16	16/16	7/16	16/16	13/16	16/16	105/16	15/16
EE-FF	16/16	14/16	14/16	7/16	16/16	8/16	16/16	13/16	14/16	103/16	15/16
B23 55-55.5	16/16	13/16	13/16	7/16	11/16	8/16	16/16	16/16	15/16	106/16	15/16

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

TOTAL

AVERAGE

AVERAGE*

Date 7-3-13 Inspector GSM

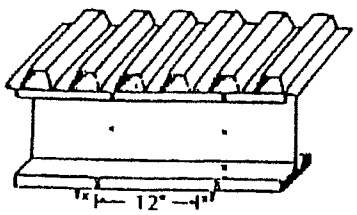
Beam:

	B21	B22	B23
Average Required	11/16	13/16	13/16
Average Recorded	14/16	15/16	15/16
Flange Tip (W/D):			
Average Required	5/16	7/16	7/16
Average Recorded	7/16	8/16	8/16

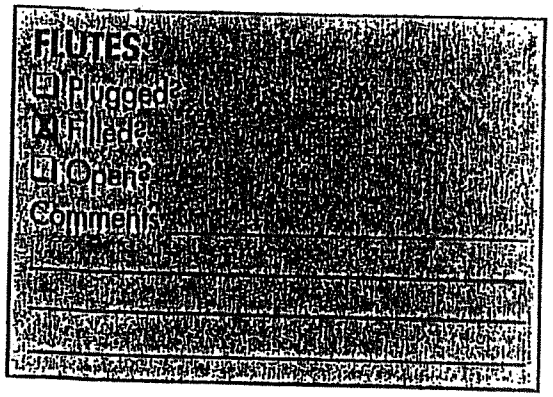
MEETS SPECIFICATION

2 Hour GA2a 400

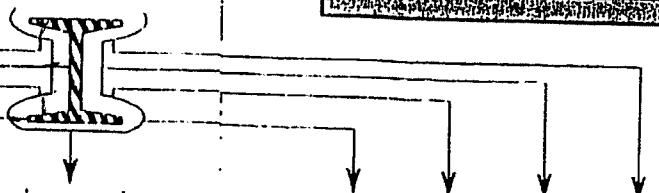
A.2 Thickness of SFRM on Beam



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



B24 W10 x 12 – 13/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B24 EE-FF/	1	1 1/16	12/16	9/16	1 1/16	9/16	12/16	12/16	16/16	102/16	15/16
53-54	15/16	1 4/16	10/16	8/16	16/16	7/16	11/16	12/16	16/16	97/16	14/16
TOTAL											
AVERAGE											

Note: *Average the Flange Tip measurements separately when reduced thicknesses are applied under W/D formula

Beam:
Average Required 13/16
Average Recorded 14/16

Flange Tip (W/D):
Average Required 7/16
Average Recorded 8/16

AVERAGE*

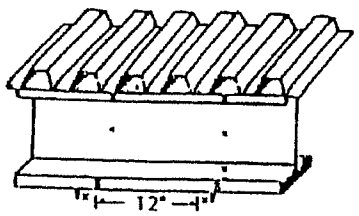
Date 7-3-13 Inspector GSM

MDOTS Specification

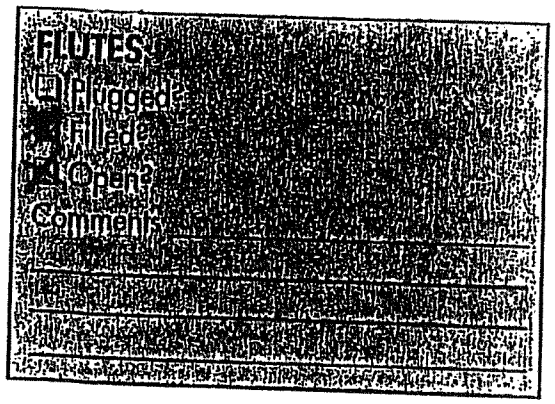
MTG

2 Hour CAFCO 400

A.2 Thickness of SFRM on Beam



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



B25 W12X14 -13/16
B26 W12X14 -13/16
B27 W12X14 -13/16

LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B25 KK-A/81	14/16	15/16	10/16	7/16	11/16	8/16	16/16	15/16	14/16	101/16	14/16
	13/16	15/16	10/16	8/16	11/16	7/16	16/16	15/16	14/16	100/16	14/16
B26 KK-A/79	16/16	14/16	11/16	9/16	16/16	9/16	15/16	14/16	16/16	164/16	15/16
	15/16	16/16	13/16	9/16	16/16	7/16	15/16	14/16	16/16	105/16	15/16
B27 K-4/8-9	15/16	13/16	10/16	7/16	15/16	7/16	14/16	16/16	16/16	99/16	14/16
	13/16	12/16	14/16	8/16	14/16	7/16	13/16	13/16	16/16	95/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-3-13 Inspector GSM

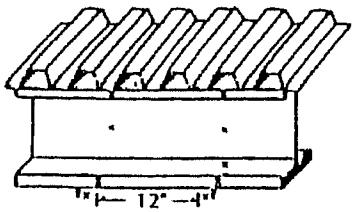
Beam:	B25	B26	B27
Average Required	13/16	13/16	13/16
Average Recorded	14/16	15/16	14/16
Flange Tip (W/D):			
Average Required	7/16	7/16	7/16
Average Recorded	8/16	9/16	7/16

MEETS SPECIFICATION

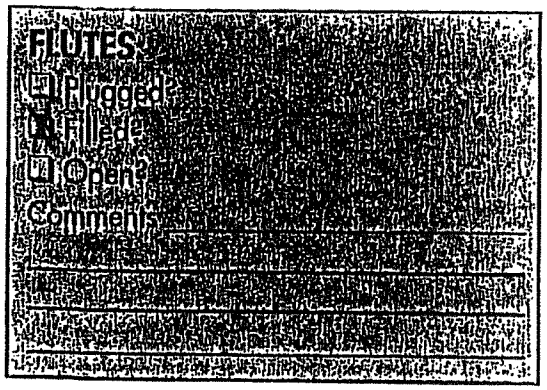
B25 B26 B27

2 HOUR CAFCO 400

A.2 Thickness of SFRM on Beam



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



B28 W30X132 - 7/16

B28 J 80-81

LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
	11/16	11/16	11/16	5/16	11/16	5/16	11/16	10/16	11/16	76/16	11/16
	11/16	11/16	11/16	4/16	11/16	4/16	11/16	11/16	11/16	70/16	10/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Beam:
Average Required 7/16
Average Recorded 10/16

Flange Tip (W/D):
Average Required 4/16
Average Recorded 5/16

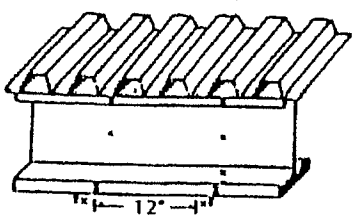
MEETS SPECIFICATION

Date 7-3-18 Inspector GSM

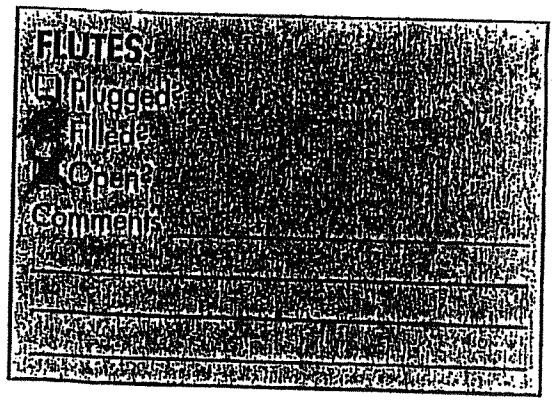
MTC

2 Hour CAFD 400

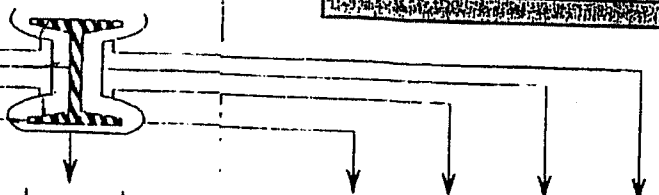
A.2 Thickness of SFRM on Beam



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



B29 W27X84 - 8/16
B30 W12X14 - 13/16
B31 W12X14 - 13/16



LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
B29 H/	12/16	12/16	11/16	7/16	11/16	6/16	11/16	12/16	12/16	81/16	12/16
80-81	12/16	12/16	11/16	7/16	11/16	5/16	11/16	12/16	12/16	81/16	12/16
B30 H-J/	16/16	1 1/16	10/16	7/16	16/16	8/16	12/16	16/16	16/16	165/16	15/16
8-9	16/16	1 1/16	10/16	9/16	16/16	7/16	13/16	16/16	1 1/16	165/16	15/16
B31 G-H/	15/16	15/16	12/16	9/16	16/16	9/16	15/16	16/16	15/16	164/16	15/16
8	16/16	16/16	13/16	8/16	1 1/16	8/16	15/16	1 1/16	16/16	110/16	16/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-2-13 Inspector GSM

Beam:	B29	B30	B31
Average Required	8/16	12/16	13/16
Average Recorded	12/16	15/16	15/16
Flange Tip (W/D):			
Average Required	4/16	7/16	7/16
Average Recorded	6/16	8/16	9/16

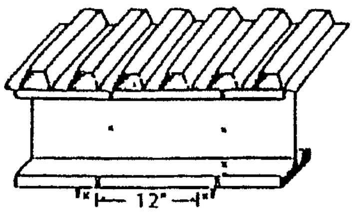
MEETS SPECIFICATION

MTC

2 Hour CAFCO 400

B32 W12X14 – 13/16

A.2 Thickness of SFRM on Beam



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

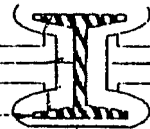
FLUTES

☐ Plugged

☒ Filled

☐ Open

Comments



332

Location	1	2	3	4*	5	6*	7	8	9	Total	Average
G-H	15/16	16/16	11/16	7/16	16/16	9/16	12/16	16/16	16/16	102/16	15/16
9	15/16	16/16	10/16	8/16	16/16	8/16	12/16	15/16	14/16	98/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

= AVERAGE*

Beam:

Average Required 13/16

Average Recorded 14/16

Flange Tip (W/D):

Average Required 7/16

Average Recorded 8/16

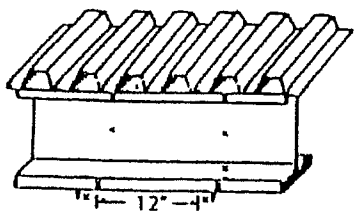
MEETS SPECIFICATION

Date 7-3-12 Inspector GSM

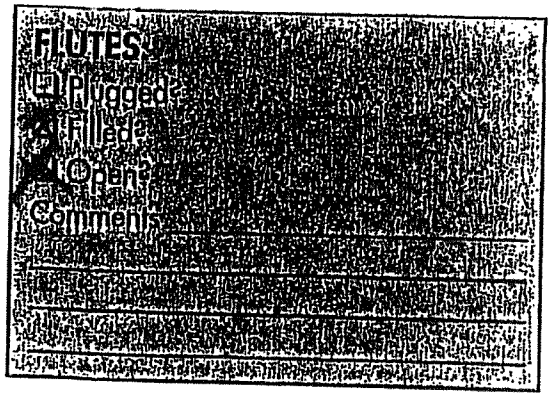
MTG

2 Hour CAFCO 400

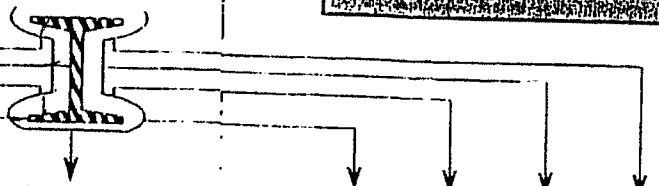
A.2 Thickness of SFRM on Beam



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



B33 W24x68 – 9/16
B34 W12x14 – 13/16
335 W14x22 – 12/16



	Location	1	2	3	4*	5	6*	7	8	9	Total	Average
333	G/80 –	13/16	12/16	13/16	5/16	13/16	5/16	12/16	13/16	11/16	79/16	11/16
	81	13/16	14/16	13/16	6/16	13/16	6/16	13/16	12/16	13/16	86/16	12/16
B34	E–F/8	15/16	14/16	15/16	7/16	15/16	10/16	16/16	16/16	16/16	104/16	15/16
		15/16	14/16	15/16	9/16	15/16	9/16	15/16	14/16	13/16	96/16	14/16
335	C–D/	16/16	16/16	15/16	9/16	16/16	6/16	16/16	16/16	15/16	110/16	16/16
	8	16/16	16/16	14/16	8/16	16/16	8/16	16/16	15/16	15/16	108/16	15/16

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

TOTAL

AVERAGE

AVERAGE*

Date 7-8-93 Inspector GSM

Beam:
Average Required 9/16, 13/16, 12/16
Average Recorded 11/16, 14/16, 1"

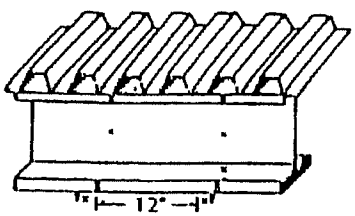
Flange Tip (W/D):
Average Required 5/16, 7/16, 6/16
Average Recorded 6/16, 9/16, 8/16 MEETS SPECIFICATION

B33 B34 B35

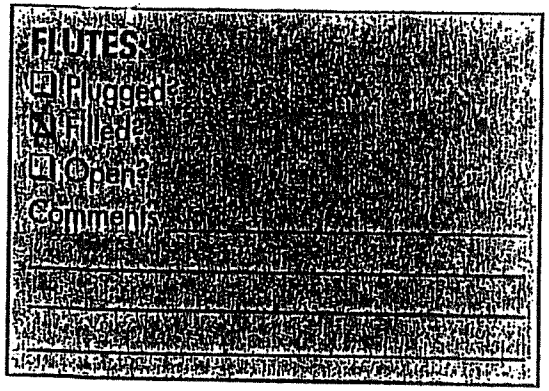
MTG

2 HOUR CAFCO 400

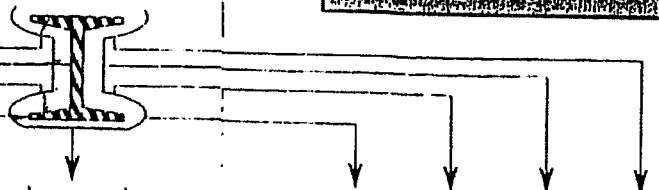
A.2 Thickness of SFRM on Beam



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



B36 W14X22 – 12/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B36 C-D/	15/16	1	15/16	7/16	16/16	8/16	15/16	16/16	16/16	109/16	16/16
48.8	15/16	1	15/16	7/16	16/16	8/16	15/16	16/16	16/16	109/16	16/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Beam:
Average Required 12/16
Average Recorded 1

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

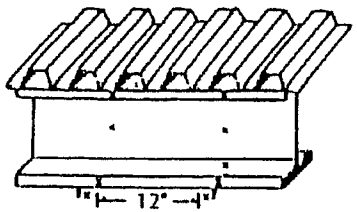
Date 7-8-13 Inspector GSM

MEETS SPECIFICATION

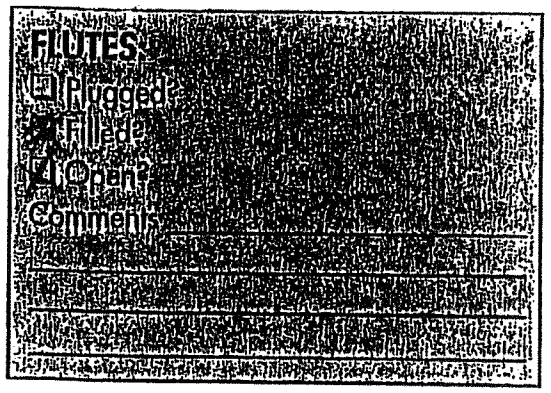
MTG

2 Hour CAFCO 400

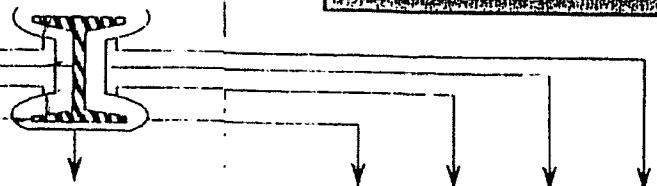
A.2 Thickness of SFRM on Beam



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



B37 W12 x 14 – 13/16
B38 W12 x 14 – 13/16
B39 W10 x 12 – 13/16



LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
B37 D-E/	16/16	11/16	15/16	9/16	11/16	7/16	15/16	15/16	13/16	100/16	15/16
8.5-8.8	16/16	11/16	15/16	8/16	16/16	8/16	12/16	14/16	12/16	101/16	15/16
B38 D-E/	11/16	15/16	11/16	8/16	16/16	9/16	11/16	16/16	16/16	102/16	15/16
50-51	16/16	15/16	14/16	7/16	16/16	8/16	14/16	16/16	11/16	102/16	15/16
B39 EE-FF/	16/16	15/16	12/16	8/16	15/16	9/16	15/16	16/16	11/16	106/16	15/16
52-52.2	11/16	15/16	12/16	7/16	16/16	8/16	13/16	13/16	15/16	101/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-8-13 Inspector GSM

24

Beam:

Average Required	13/16	13/16	13/16
Average Recorded	15/16	15/16	15/16
Flange Tip (W/D):			
Average Required	7/16	7/16	7/16
Average Recorded	8/16	8/16	8/16

MEET SPECIFICATION

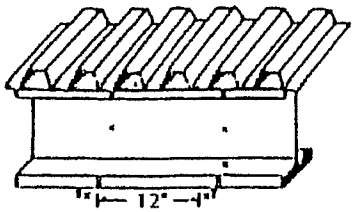
25

B37 B38 B39

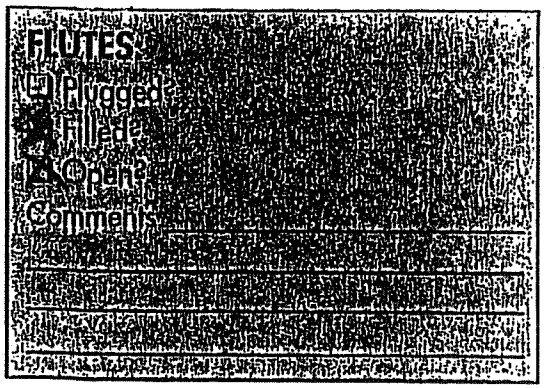
MTB

2 Hour CAFCO 400

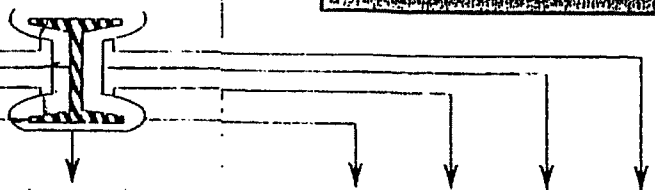
A.2 Thickness of SFRM on Beam



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



BA0 W16X31 – 11/16
BA1 W12X14 – 13/16
B42 W14X22 – 12/16



Location	1	2	3	4*	5	6*	7	8	9	Total	Average
340 DD-EE/SS	15/16	15/16	15/16	8/16	14/16	11/16	15/16	15/16	15/16	16 4/16	15/16
SS.6	15/16	15/16	15/16	7/16	16/16	7/16	14/16	15/16	15/16	16 4/16	15/16
BA1 DD-EE/	15/16	15/16	15/16	9/16	1	7/16	15/16	13/16	12/16	16 4/16	15/16
SS.2	16/16	16/16	15/16	7/16	1	8/16	15/16	13/16	12/16	16 3/16	15/16
DD-EE/	16/16	16/16	15/16	7/16	15/16	9/16	15/16	13/16	15/16	16 3/16	15/16
B42 SS.5	16/16	16/16	16/16	8/16	14/16	9/16	13/16	12/16	16/16	16 5/16	15/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

=

AVERAGE*

Date 7-8-13 Inspector GFM

Beam:

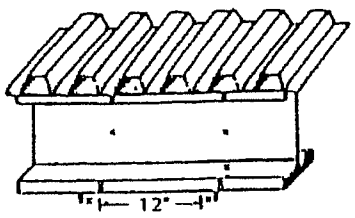
Average Required	11/16	13/16	12/16
Average Recorded	15/16	15/16	15/16
Flange Tip (W/D):			
Average Required	5/16	7/16	6/16
Average Recorded	8/16	8/16	8/16
	B40	BA1	BA2

MEETS SPECIFICATION

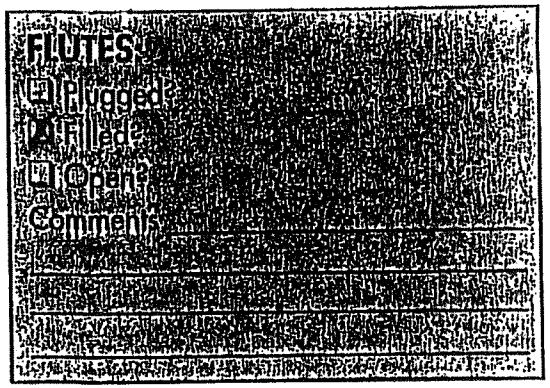
MTG

2 HOUR CAFCO 400

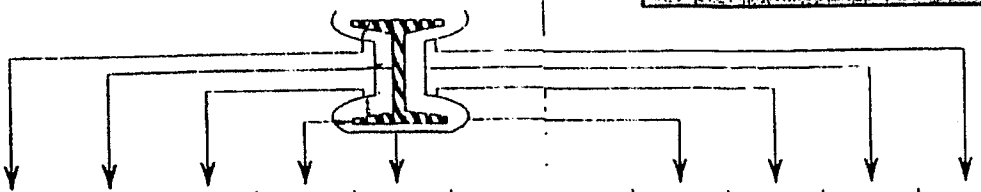
A.2 Thickness of SFRM on Beam



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



B43 W16X26 — 12/16



LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
B43 DD-EE/	15/16	17/16	16/16	7/16	16/16	7/16	15/16	12/16	14/16	10 1/16	14/16
52.2	16/16	16/16	16/16	8/16	16/16	8/16	10/16	13/16	15/16	10 2/16	15/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

= AVERAGE*

Beam:
Average Required 12/16
Average Recorded 15/16

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

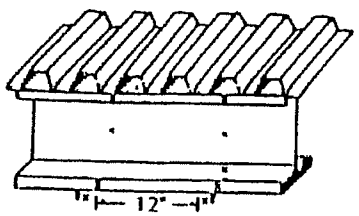
MEETS SPECIFICATION

Date 7-8-13 Inspector GSM

B43

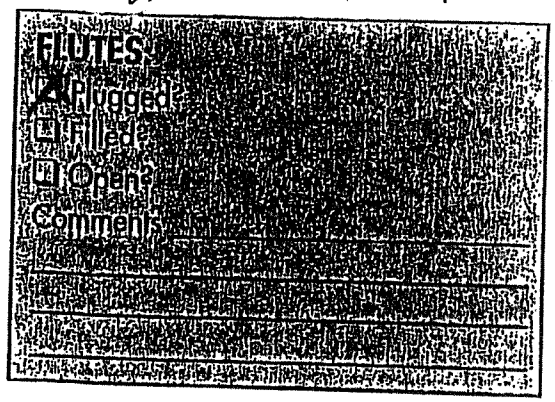
MTG

A.2 Thickness of SFRM on Beam

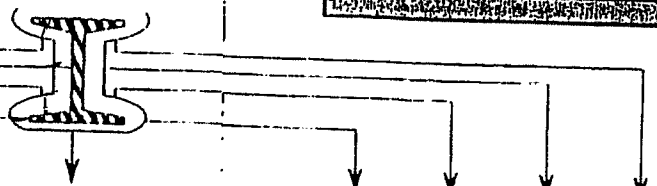


Take 9 measurements at each end of 12-in. length

2 HOUR CAFCO 400



B44 W14x22 – 12/16
B45 W14x22 12/16
B46 W16x26 12/16



	Location	1	2	3	4*	5	6*	7	8	9	Total	Average
B44	C-D/	13/16	14/16	10/16	7/16	16/16	7/16	12/16	12/16	14/16	93/16	13/16
	8.2	14/16	16/16	10/16	6/16	16/16	9/16	11/16	10/16	14/16	91/16	13/16
B45	C-D/	16/16	16/16	12/16	9/16	16/16	8/16	10/16	12/16	14/16	96/16	14/16
	6	16/16	16/16	12/16	9/16	16/16	8/16	10/16	14/16	14/16	98/16	14/16
B46	D/	15/16	16/16	12/16	8/16	15/16	9/16	9/16	12/16	13/16	92/16	13/16
	5-6	15/16	15/16	14/16	8/16	14/16	7/16	10/16	12/16	14/16	95/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

= AVERAGE*

Beam:
Average Required 12/16 →
Average Recorded 13/16, 14/16, 13/16

Flange Tip (W/D):
Average Required 6/16 →
Average Recorded 8/16, 9/16, 8/16 MEETS SPECIFICATION

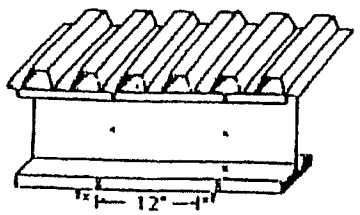
B44 B45 B46

MTC

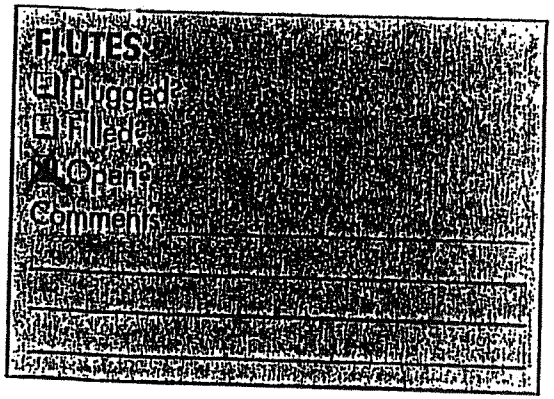
Date 7-10-13 Inspector GSM

2 Hour CAFCO400

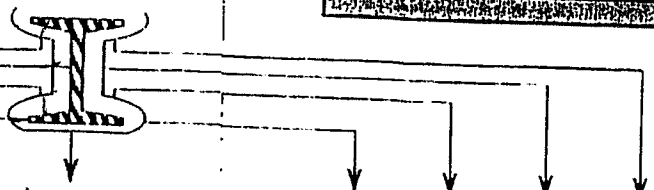
A.2 Thickness of SFRM on Beam



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



B47 W16X26 12/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
47 C-D	15/16	17/16	12/16	8/16	15/16	9/16	9/16	12/16	12/16	88/16	13/16
3-4	15/16	13/16	12/16	8/16	15/16	9/16	9/16	15/16	12/16	91/16	13/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

= AVERAGE*

Beam: 12/16
Average Required ___
Average Recorded 13/16

Flange Tip (W/D):
Average Required 6/16
Average Recorded 9/16

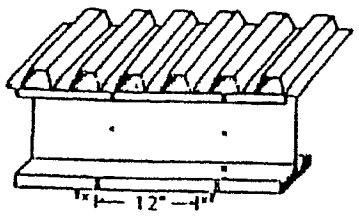
MEETS SPECIFICATION

Date 7-10-15 Inspector GSM

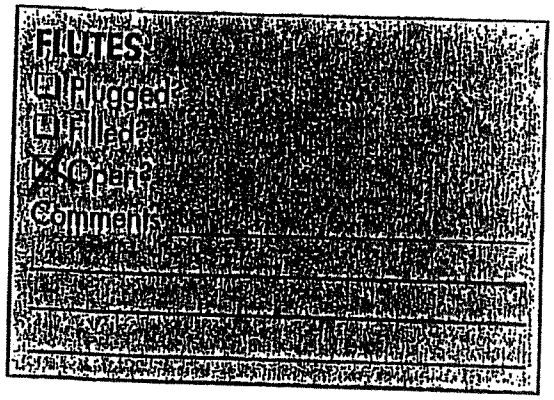
MTB

2 Hour CAFCO 400

A.2 Thickness of SFRM on Beam



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



B48 W12X16 – 13/16
B49 W12X16 – 13/16
B50 W16X26 – 12/16

	Location	1	2	3	4*	5	6*	7	8	9	Total	Average
48	C-D/	16/16	16/16	12/16	9/16	12/16	9/16	12/16	14/16	15/16	97/16	14/16
	1-2	16/16	16/16	12/16	9/16	12/16	9/16	13/16	14/16	16/16	99/16	14/16
49	C-D	15/16	14/16	10/16	8/16	12/16	9/16	10/16	13/16	15/16	90/16	13/16
	1-2	15/16	13/16	10/16	9/16	14/16	9/16	10/16	14/16	16/16	92/16	13/16
50	E-F/	16/16	16/16	15/16	8/16	15/16	8/16	13/16	13/16	12/16	102/16	15/16
	7-8	16/16	16/16	15/16	9/16	15/16	7/16	15/16	10/16	13/16	100/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-10-18 Inspector GSM

24

Beam:

Average Required 13/16 , 13/16 , 12/16

Average Recorded 14/16 13/16 14/16

Flange Tip (W/D):

Average Required 7/16 , 7/16 , 6/16

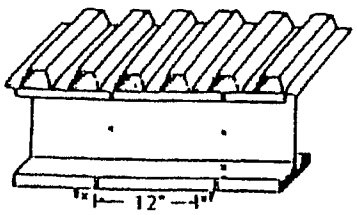
Average Recorded 9/16 , 9/16 , 8/16

B48 B49 B50 MEETS SPECIFICATION

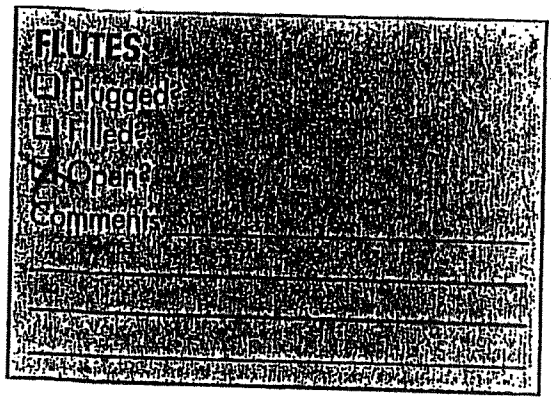
25

2 Hour CAFCO 400

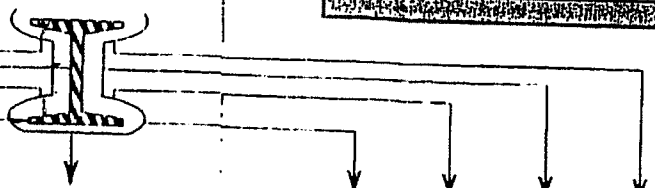
A.2 Thickness of SFRM on Beam



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



B51 | W10x12 – 13/16



Location	1	2	3	4*	5	6*	7	8	9	Total	Average
E-F	11/16	15/16	11/16	9/16	11/16	9/16	11/16	15/16	16/16	108/16	15/16
5-6	11/16	15/16	11/16	9/16	11/16	9/16	12/16	16/16	16/16	104/16	15/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Beam:
Average Required 13/16
Average Recorded 15/16

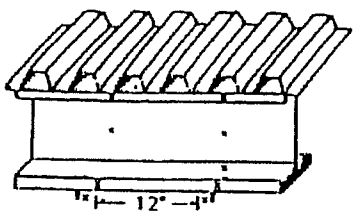
Flange Tip (W/D):
Average Required 7/16
Average Recorded 9/16

MEETS SPECIFICATION

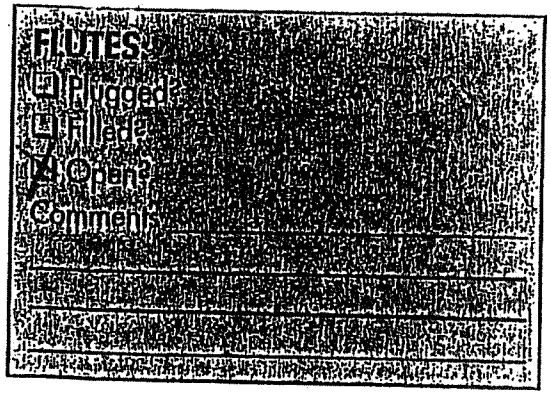
Date 7-10-13 Inspector GSM

2 Hour CAFCO 400

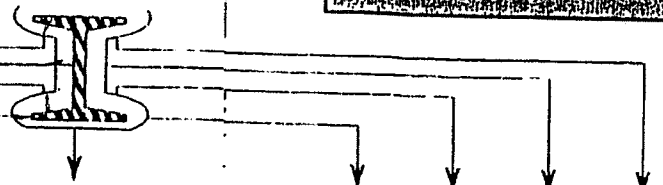
A.2 Thickness of SFRM on Beam



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



B52 W10X12 – 13/16
B53 W16X31 – 11/16
B54 W27X84 – 8/16



	LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
B52	E-F/	11/16	15/16	13/16	9/16	16/16	8/16	15/16	16/16	16/16	109/16	15/16
	4	16/16	14/16	13/16	9/16	16/16	9/16	15/16	15/16	15/16	104/16	15/16
B53	E-F/	15/16	13/16	15/16	7/16	15/16	7/16	15/16	15/16	15/16	103/16	15/16
	3,8	15/16	14/16	15/16	7/16	15/16	8/16	15/16	15/16	15/16	103/16	15/16
B54	E/	12/16	12/16	12/16	8/16	12/16	7/16	12/16	12/16	12/16	83/16	12/16
	2,2	12/16	12/16	12/16	8/16	12/16	7/16	12/16	12/16	12/16	84/16	12/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

Date 7-10-13 Inspector GSM

Beam: B52 B53 B54

Average Required: 13/16 11/16 8/16

Average Recorded: 15/16 15/16 12/16

Flange Tip (W/D):

Average Required: 7/16 5/16 4/16

Average Recorded: 9/16 7/16 8/16

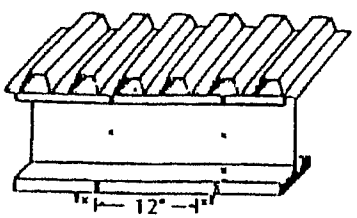
AVERAGE*

MEETS SPECIFICATION

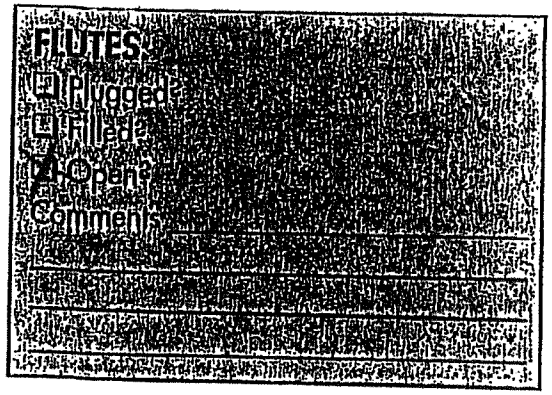
MTF

2 Hour CAFCO 400

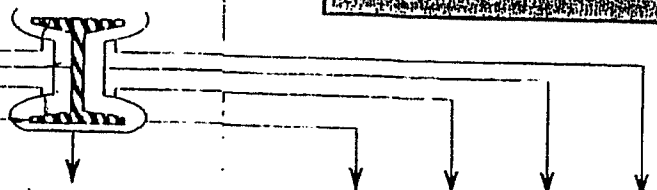
A.2 Thickness of SFRM on Beam



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



B55 W16X26 – 13/16



B55 E-F/1.2

LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
	11/16	15/16	11/16	9/16	16/16	9/16	13/16	14/16	15/16	100/16	14/16
	16/16	15/16	13/16	8/16	16/16	9/16	13/16	15/16	15/16	163/16	15/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

Date 7-10-15 Inspector GSM

Beam:
Average Required 13/16
Average Recorded 15/16

Flange Tip (W/D):
Average Required 7/16
Average Recorded 9/16

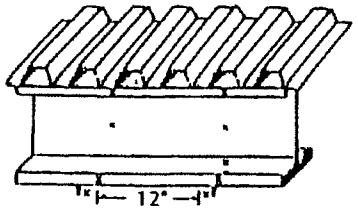
AVERAGE*

MEETS SPECIFICATION

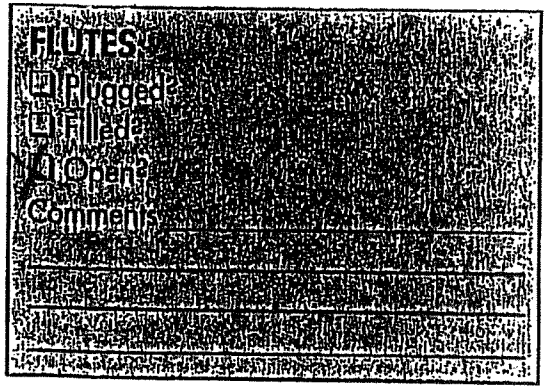
MTG

2 Hour CAFCO 400

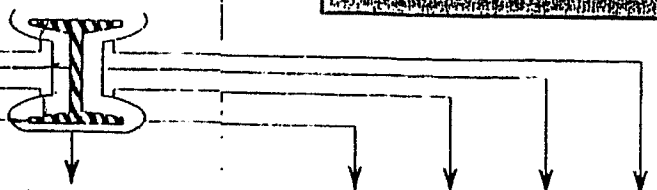
A.2 Thickness of SFRM on Beam



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



B56 W10X12 – 13/16
B57 W10X12 –
B58 W16X26 –



LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
356 E-F/2	15/16	15/16	15/16	9/16	16/16	8/16	15/16	15/16	16/16	107/16	15/16
	14/16	15/16	15/16	9/16	16/16	9/16	15/16	16/16	16/16	107/16	15/16
357 D-E/5-6	16/16	15/16	13/16	9/16	15/16	8/16	15/16	14/16	15/16	103/16	15/16
	16/16	16/16	11/16	9/16	15/16	8/16	15/16	14/16	15/16	102/16	15/16
B58 E/5.5	15/16	15/16	15/16	8/16	15/16	8/16	16/16	16/16	15/16	107/16	15/16
	16/16	16/16	14/16	9/16	15/16	9/16	16/16	16/16	15/16	108/16	15/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

=

AVERAGE*

Date 7-10-13 Inspector GSM

Beam:

Average Required 13/16 13/16 13/16

Average Recorded 15/16 / 15/16 15/16

Flange Tip (W/D):

Average Required 7/16 7/16 7/16

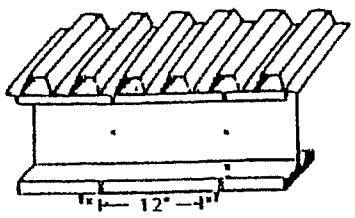
Average Recorded 9/16 / 9/16 9/16 MEETS SPECIFICATION

356 357 B58.

MTG

2 Hour CAFCO 400

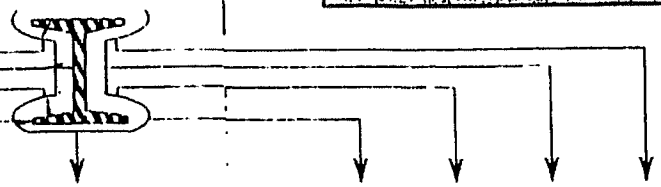
A.2 Thickness of SFRM on Beam



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

FLUTES
☐ Plugged
☐ Filled
☒ Open
Comments

B59 W10X12 – 13/16



LOCATION	1	2	3	4"	5	6"	7	8	9	Total	Average
B59 D-E	1 1/16	15/16	15/16	9/16	16/16	9/16	1 1/16	16/16	15/16	11 11/16	16/16
4.2	1 1/16	15/16	15/16	9/16	1 1/16	9/16	1 1/16	16/16	15/16	11 2/16	16/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

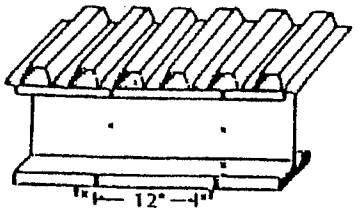
Beam:
Average Required 13/16
Average Recorded 16/16

Flange Tip (W/D):
Average Required 7/16
Average Recorded 9/16 MEETS SPECIFICATION

Date 7-10-13 Inspector GJSM

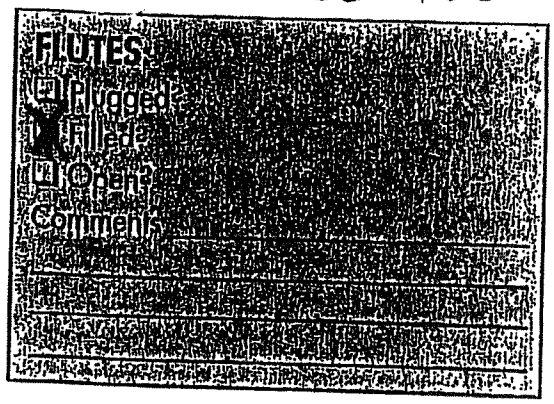
MFC

A.2 Thickness of SFRM on Beam



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

2 Hour CAFCO 400



B60 W16x31 -11/16
B61 W10x12 -13/16
B62 W10x12 -13/16

LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
360 D-E/	14/16	13/16	9/16	7/16	12/16	8/16	10/16	15/16	15/16	98/16	13/16
3.5	13/16	12/16	11/16	8/16	13/16	9/16	11/16	15/16	15/16	90/16	13/16
361 D-E	16/16	16/16	15/16	8/16	12/16	9/16	14/16	17/16	17/16	107/16	15/16
2.8	16/16	15/16	15/16	9/16	11/16	8/16	13/16	16/16	16/16	102/16	15/16
362 D-E/	17/16	14/16	15/16	9/16	16/16	8/16	15/16	16/16	15/16	104/16	15/16
1.8	17/16	14/16	15/16	9/16	13/16	9/16	14/16	15/16	16/16	104/16	15/16

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

TOTAL

AVERAGE

AVERAGE*

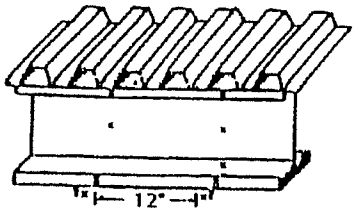
Date 7-15-13 Inspector GSM

Beam:
Average Required 11/16, 13/16, 13/16
Average Recorded 13/16, 15/16, 15/16
Flange Tip (W/D):
Average Required 6/16, 7/16, 7/16
Average Recorded 8/16, 9/16, 9/16 MEETS SPECIFICATIONS

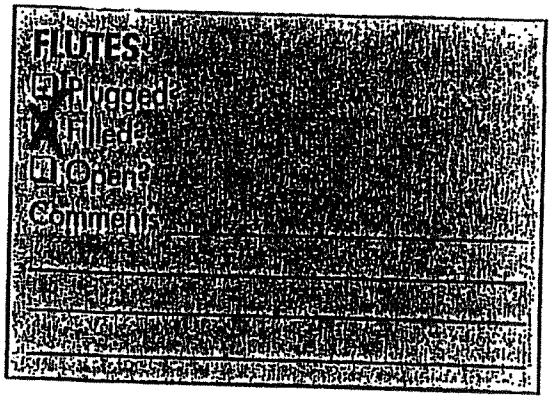
B60 B61 B62

2 Hour CAFCO 400

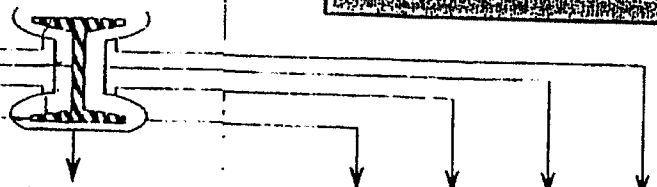
A.2 Thickness of SFRM on Beam



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



B63 W10X12 - 13/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B63 F-6/	17/16	15/16	17/16	9/16	15/16	8/16	17/16	15/16	16/16	105/16	15/16
5.5	17/16	15/16	11/16	9/16	15/16	8/16	17/16	15/16	17/16	103/16	15/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL + =

AVERAGE + = AVERAGE*

Beam:
Average Required 13/16
Average Recorded 15/16

Flange Tip (W/D):
Average Required 7/16
Average Recorded 9/16

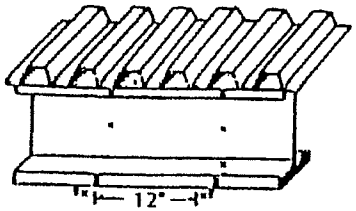
Date 7-15-13 Inspector GSM

MGOTS SPECIFICATION

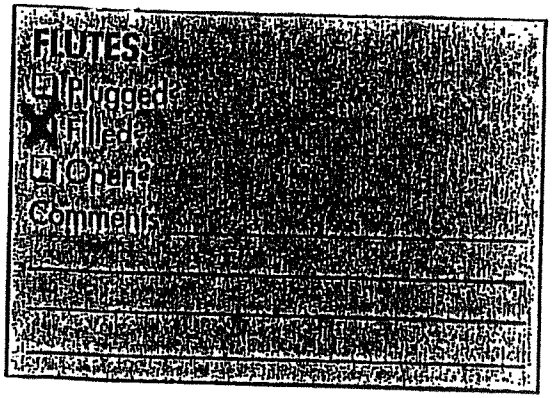
MG

2 HOUR CAFCO 400

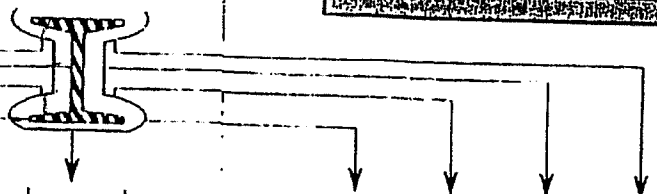
A.2 Thickness of SFRM on Beam



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



B64 W16X26 – 12/16
B65 W10X12 – 13/16
B66 W16X31 – 11/16



	Location	1	2	3	4*	5	6*	7	8	9	Total	Average
B64	G/	16/16	15/16	12/16	7/16	13/16	8/16	9/16	14/16	16/16	95/16	14/16
	5.6	16/16	14/16	12/16	8/16	11/16	7/16	10/16	15/16	16/16	94/16	13/16
B65	F-G/	17/16	13/16	11/16	9/16	15/16	8/16	15/16	13/16	14/16	100/16	14/16
	5.2	15/16	12/16	12/16	9/16	15/16	8/16	14/16	14/16	15/16	97/16	14/16
B66	F-G	15/16	14/16	11/16	7/16	14/16	7/16	14/16	13/16	15/16	96/16	14/16
	4.8	15/16	14/16	10/16	7/16	14/16	8/16	11/16	14/16	15/16	97/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-15-13 Inspector GSM

Beam:			
Average Required	12/16	13/16	11/16
Average Recorded	14/16	14/16	14/16
Flange Tip (W/D):			
Average Required	6/16	7/16	6/16
Average Recorded	8/16	9/16	7/16

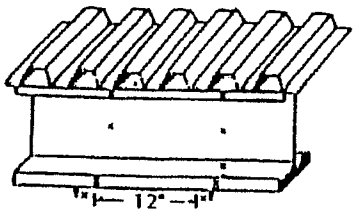
MEETS SPECIFICATION

B64 B65 B66

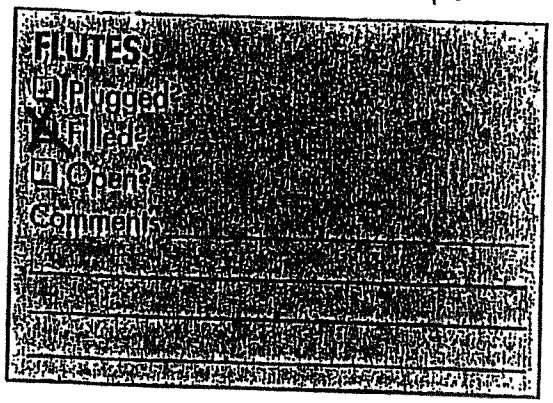
OUT

2 HOUR CAFCO 400

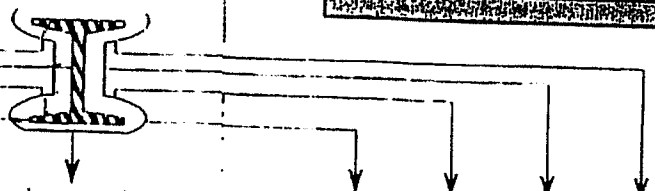
A.2 Thickness of SFRM on Beam



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



B67 W10X12 — 13/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B67 F-G/	16/16	13/16	15/16	7/16	15/16	9/16	13/16	16/16	16/16	104/16	15/16
3.2	16/16	12/16	11/16	9/16	14/16	9/16	14/16	16/16	16/16	99/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Beam:
Average Required 13/16
Average Recorded 15/16

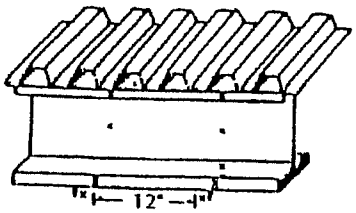
Flange Tip (W/D): 7/16
Average Required
Average Recorded 9/16

MEETS SPECIFICATION

Date 7-15-13 Inspector GSM

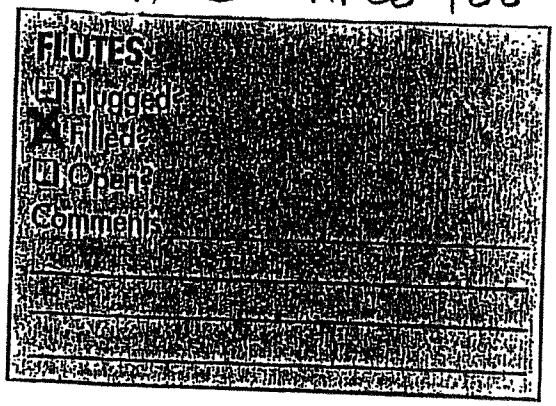
MTC

A.2 Thickness of SFRM on Beam

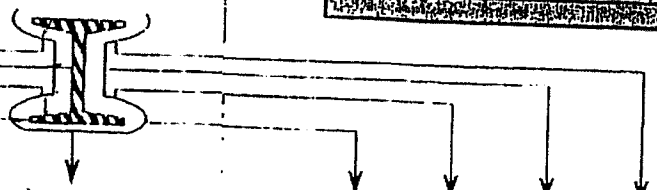


Take 9 measurements at each end of 12-in. length

2 Hour CAFCO 400



B68 W12x14 – 13/16
B69 W18x35 – 10/16
B70 W10x12 – 13/16



	LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B68	F-G	17/16	15/16	12/16	9/16	13/16	9/16	12/16	15/16	15/16	101/16	14/16
	1.5	16/16	15/16	17/16	9/16	13/16	9/16	12/16	16/16	15/16	100/16	14/16
B69	G-H	14/16	14/16	14/16	7/16	13/16	7/16	13/16	14/16	14/16	99/16	13/16
	1.5	14/16	14/16	14/16	7/16	13/16	7/16	13/16	12/16	13/16	93/16	13/16
B70	G-H	17/16	16/16	11/16	9/16	15/16	8/16	13/16	15/16	15/16	98/16	14/16
	1.2	14/16	15/16	11/16	8/16	15/16	7/16	12/16	14/16	14/16	95/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-15-13 Inspector GSM

Beam:
Average Required 13/16 10/16 13/16
Average Recorded 14/16 , 13/16 , 14/16

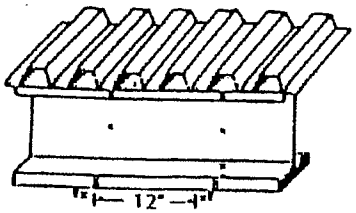
Flange Tip (W/D):
Average Required 7/16 5/16 8/16
Average Recorded 9/16 , 7/16 , 8/16

MEETS SPECIFICATION

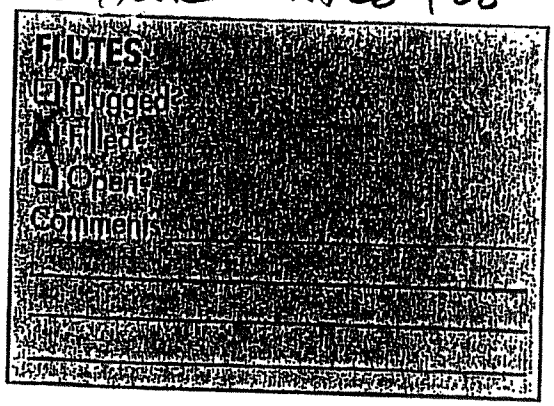
B68 B69 B70

2 HOUR CAFCO 400

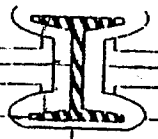
A.2 Thickness of SFRM on Beam



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



T371 | W10x12 - 13/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
T371 G-H/2	16/16	13/16	12/16	9/16	13/16	8/16	14/16	15/16	15/16	98/16	14/16
	16/16	12/16	11/16	9/16	14/16	8/16	13/16	16/16	15/16	97/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

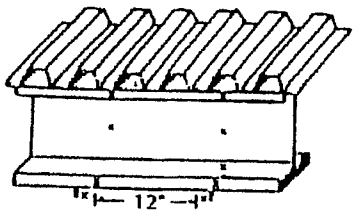
Beam:
Average Required 13/16
Average Recorded 14/16

Flange Tip (W/D):
Average Required 7/16
Average Recorded 9/16

MEETS SPECIFICATION

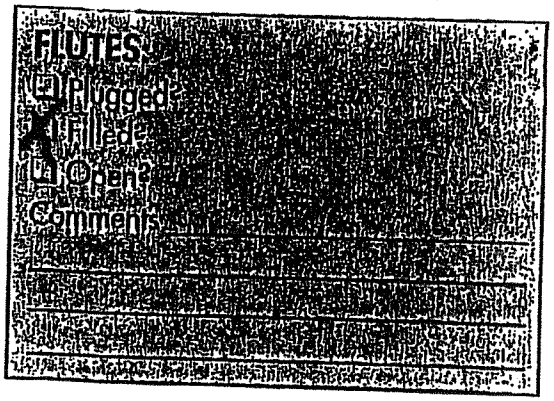
Date 7-15-13 Inspector GSM

A.2 Thickness of SFRM on Beam

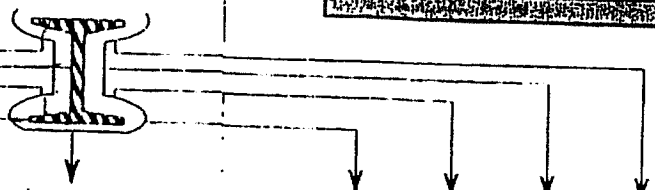


Take 9 measurements at each end of 12-in. length

2 HOUR CAFCO 400



B72 W10X12 - 13/16
B73 W30X90 - 8/16
B74 W16X31 - 11/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B72 G-H	16/16	14/16	13/16	8/16	12/16	7/16	14/16	16/16	16/16	99/100	14/16
3.2	13/16	15/16	12/16	7/16	11/16	9/16	13/16	16/16	17/16	97/100	14/16
B73 H/	12/16	12/16	12/16	7/16	12/16	7/16	12/16	12/16	12/16	84/16	12/16
3.2	12/16	12/16	12/16	6/16	12/16	7/16	12/16	12/16	12/16	84/16	12/16
B74 G-H/	14/16	10/16	13/16	8/16	13/16	7/16	13/16	15/16	13/16	91/16	13/16
3.8	12/16	9/16	13/16	7/16	13/16	7/16	14/16	15/16	13/16	89/16	13/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-15-13 Inspector GSM

Beam:

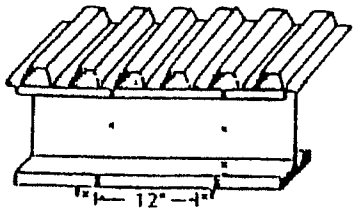
Average Required	13/16	8/16	11/16
Average Recorded	14/16	14/16	13/16
Flange Tip (W/D):			
Average Required	7/16	6/16	6/16
Average Recorded	8/16	7/16	7/16
	B72	B73	B74

MEETS SPECIFICATION

MJC

2 Hour CAFCO 400

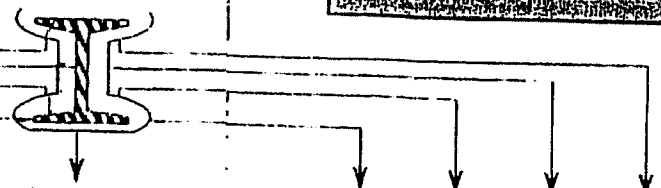
A.2 Thickness of SFRM on Beam



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

FLUTES
☐ Plugged
☒ Filled
☐ Open
Comments

B75 W10x12 — 13/16



B75 G-H/4

Location	1	2	3	4*	5	6*	7	8	9	Total	Average
	13/16	13/16	10/16	8/16	13/16	8/16	15/16	16/16	16/16	96/100	14/16
	12/16	14/16	10/16	8/16	14/16	8/16	15/16	15/16	16/16	96/100	14/16

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

TOTAL

AVERAGE

AVERAGE*

Beam:
Average Required 13/16
Average Recorded 14/16

Flange Tip (W/D):
Average Required 7/16
Average Recorded 8/16

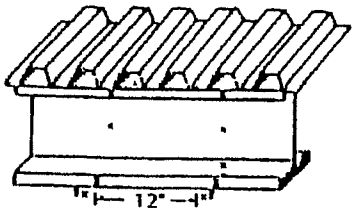
MEETS SPECIFICATION

Date 7-15-13 Inspector GSM

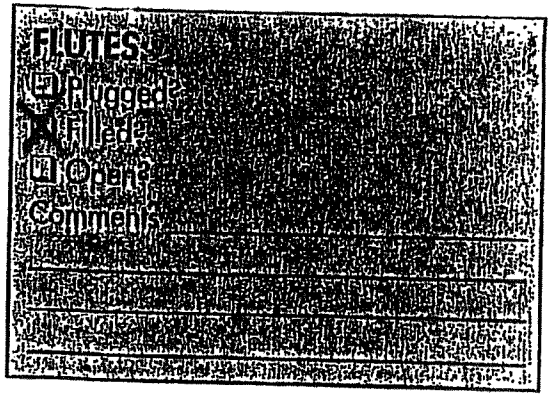
MTG

2 Hour CAFCO 400

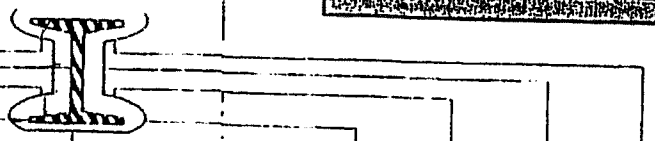
A.2 Thickness of SFRM on Beam



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



B76 W14X22 – 12/16
B77 W10X12 – 13/16
B78 W16X26 – 12/16



	LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
B76	H/	15/16	14/16	12/16	8/16	13/16	8/16	15/16	16/16	15/16	106/16	14/16
	5-5.5	16/16	14/16	13/16	9/16	15/16	9/16	14/16	16/16	15/16	163/16	15/16
B77	G-H/	17/16	15/16	15/16	9/16	15/16	9/16	16/16	15/16	15/16	121/16	15/16
	5.8	16/16	16/16	14/16	10/16	15/16	9/16	16/16	16/16	16/16	110/16	16/16
	G-H/	16/16	14/16	12/16	7/16	10/16	7/16	16/16	13/16	14/16	95/16	14/16
B78	6-7	16/16	13/16	11/16	8/16	9/16	7/16	15/16	14/16	16/16	94/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-15-13 Inspector GSM

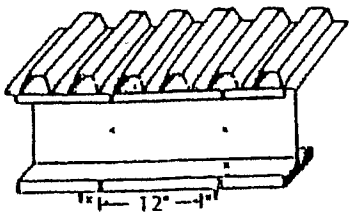
Beam:	B76	B77	B78
Average Required	12/16	13/16	12/16
Average Recorded	15/16	16/16	14/16
Flange Tip (W/D):			
Average Required	6/16	7/16	6/16
Average Recorded	8/16	9/16	7/16

MEETS SPECIFICATION

MTG

2 Hour CAFCO 400

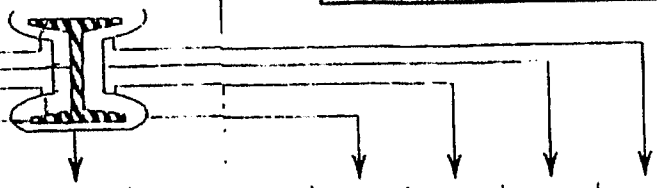
A.2 Thickness of SFRM on Beam



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

FLUTES
☐ Plugged
☒ Filled
☐ Open
Comments

1379 W16X26 – 12/16



Location	1	2	3	4*	5	6*	7	8	9	Total	Average
1379 J/	15/16	14/16	13/16	7/16	12/16	8/16	10/16	14/16	15/16	93/16	13/16
5-6	16/16	13/16	12/16	7/16	11/16	7/16	11/16	12/16	15/16	96/16	13/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE = AVERAGE*

Beam:
Average Required 12/16
Average Recorded 13/16

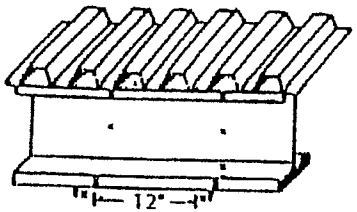
Flange Tip (W/D):
Average Required 6/16
Average Recorded 7/16

MEETS SPECIFICATION

Date 7-15-13 Inspector GSM

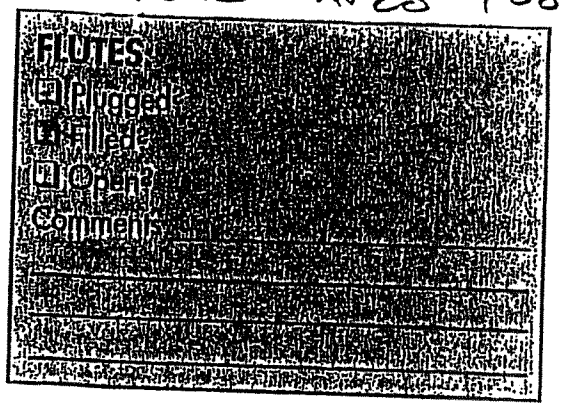
MFC

A.2 Thickness of SFRM on Beam

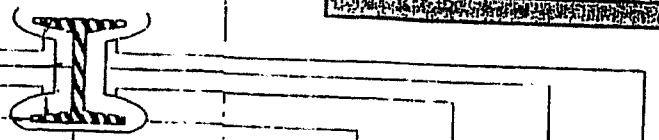


Take 9 measurements at each end of 12-in. length

2 HOUR CAFCO 400



B80 W27x84 – 8/16
B81 W10x12 – 13/16
B82 W10-12 13/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B80 J/	12/16	12/16	12/16	6/16	12/16	6/16	12/16	12/16	12/16	84/16	12/16
3.2	12/16	14/16	14/16	6/16	12/16	6/16	12/16	12/16	12/16	84/16	12/126
B81 M-J/	17/16	15/16	10/16	9/16	13/16	9/16	16/16	16/16	16/16	104/16	15/16
2.2	17/16	15/16	10/16	9/16	15/16	8/16	15/16	15/16	15/16	102/16	15/16
B82 J-K/	13/16	14/16	11/16	9/16	12/16	9/16	11/16	16/16	15/16	92/16	13/16
2.2	13/16	13/16	11/16	8/16	13/16	9/16	12/16	13/16	15/16	96/16	13/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

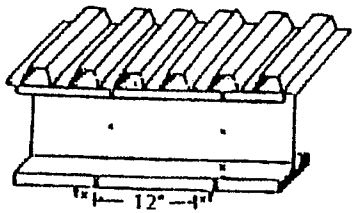
Date 7-16-12 Inspector GSM

Beam:			
Average Required	8/16	13/16	13/16
Average Recorded	12/16	15/16	13/16
Flange Tip (W/D):			
Average Required	4/16	7/16	7/16
Average Recorded	6/16	9/16	9/16
	B80	B81	B82

MEETS SPECIFICATION

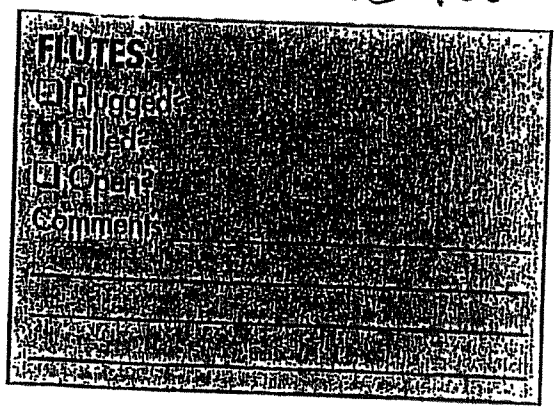
MTF

A.2 Thickness of SFRM on Beam

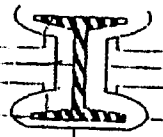


Take 9 measurements at each end of 12-in. length

2 Hour CAFCO 400



B83W12X14 - 17/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B83 J-K	16/16	17/16	11/16	9/16	13/16	9/16	12/16	16/16	17/16	102/16	15/16
1.5	16/16	15/16	12/16	9/16	13/16	9/16	13/16	15/16	15/16	99/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Beam:
Average Required 17/16
Average Recorded 15/16
Flange Tip (W/D): 7/16
Average Required
Average Recorded 9/16

MEETS SPECIFICATION

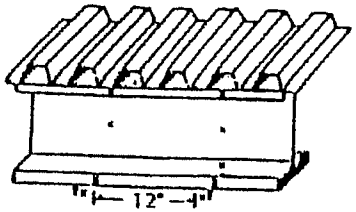
Date 7/16-18 Inspector GSha

MTR

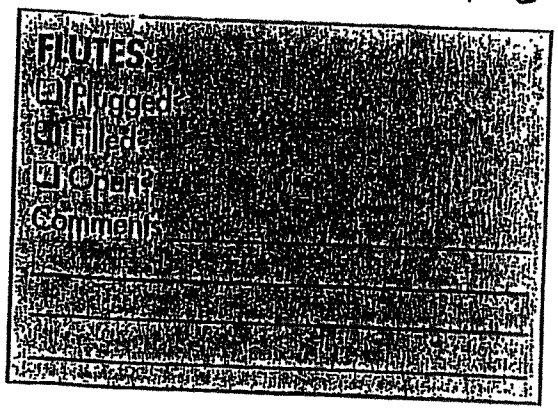
2 HOUR CAFCO 400

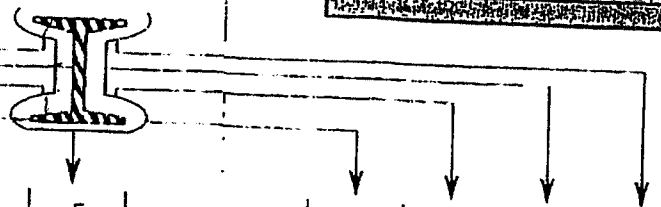
B84-W10X12 13/16

A.2 Thickness of SFRM on Beam



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





LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
384 K-L/6.5	15/16	16/16	14/16	7/16	14/16	9/16	13/16	15/16	16/16	103/16	15/16
	14/16	16/16	13/16	9/16	15/16	9/16	13/16	16/16	16/16	103/16	15/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Beam:
Average Required 13/16
Average Recorded 15/16

Flange Tip (W/D):
Average Required 7/16
Average Recorded 9/16

Date 7-16-13 Inspector GSM

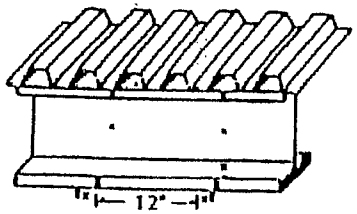
MEETS SPECIFICATION

MTR

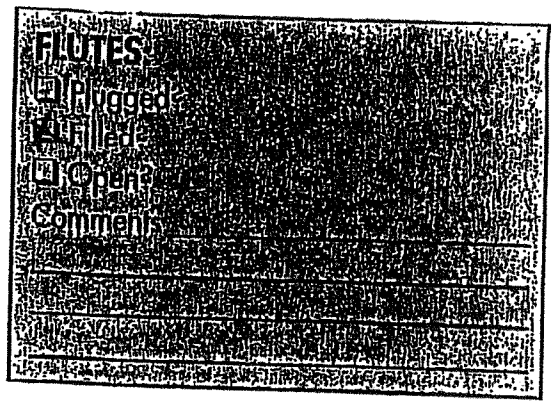
2 Hour CAFCO 400

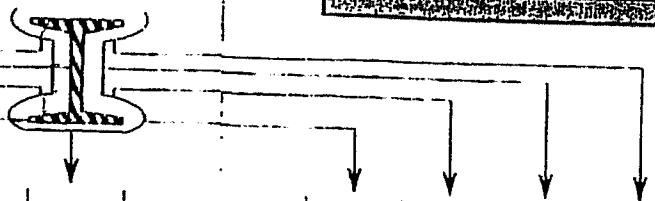
B85 W18x40 – 10/16
B86 W16x26 12/16
87 W14x22 13/16

A.2 Thickness of SFRM on Beam



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





LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
385 L	14/16	13/16	14/16	7/16	14/16	7/16	12/16	12/16	14/16	90/16	13/16
5.5	14/16	14/16	14/16	7/16	14/16	7/16	11/16	13/16	14/16	90/16	13/16
386 L-M	16/16	13/16	14/16	8/16	12/16	8/16	14/16	15/16	16/16	100/16	14/16
4.2	16/16	13/16	13/16	8/16	12/16	8/16	14/16	15/16	16/16	99/16	14/16
387 K-L	15/16	14/16	13/16	9/16	13/16	9/16	14/16	13/16	16/16	98/16	14/16
4.0	15/16	14/16	13/16	9/16	12/16	8/16	14/16	14/16	16/16	96/16	14/16

Note: "Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

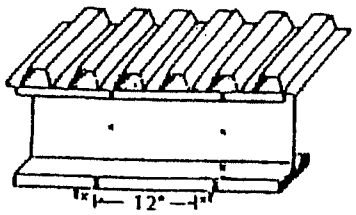
Date 7/16-17 Inspector GGM

Beam:			
Average Required	16/16	12/16	13/16
Average Recorded	13/16	14/16	14/16
Flange Tip (W/D):			
Average Required	5/16	6/16	7/16
Average Recorded	7/16	8/16	9/16
	B85	B86	B87

MEETS SPECIFICATION

MTC

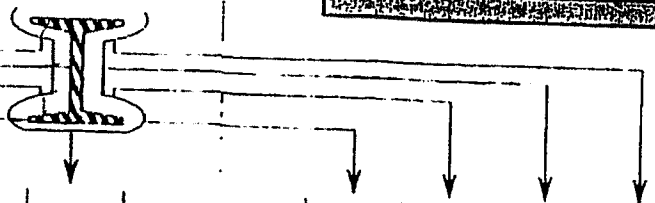
A.2 Thickness of SFRM on Beam



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

2 Hour CAFCO 400

W14X22 - 13/16



LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
K-L	17/16	16/16	11/16	8/16	13/16	7/16	12/16	15/16	16/16	160/16	14/16
3-5	17/16	16/16	11/16	9/16	13/16	7/16	12/16	16/16	17/16	162/16	15/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

Beam:
Average Required 13/16
Average Recorded 15/16

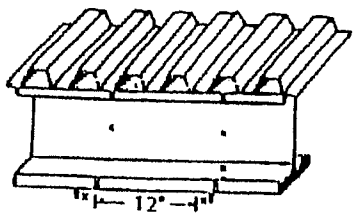
Flange Tip (W/D):
Average Required 7/16
Average Recorded 8/16

AVERAGE*

MEETS SPECIFICATION

Date 7-16-13 Inspector GSM

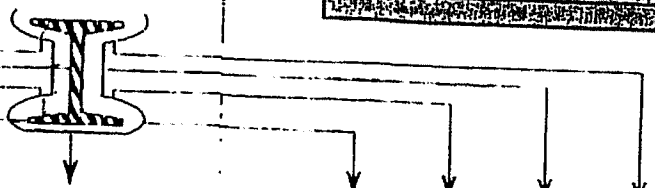
A.2 Thickness of SFRM on Beam



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

2 HOUR CAFCO 400

B89 W10X12 – 13/16
B90 W10X12 – 13/16
B91 W16X26 – 12/16



	Location	1	2	3	4*	5	6*	7	8	9	Total	Average
B89	L-M	14/16	16/16	11/16	8/16	15/16	9/16	12/16	15/16	15/16	98/16	14/16
	7.5	15/16	16/16	11/16	9/16	14/16	9/16	13/16	15/16	15/16	99/16	14/16
B90	L-L	15/16	17/16	13/16	8/16	14/16	8/16	13/16	16/16	17/16	105/16	15/16
	2.10	16/16	17/16	13/16	8/16	14/16	8/16	13/16	17/16	16/16	106/16	15/16
B91	L-M	14/16	17/16	16/16	7/16	13/16	8/16	12/16	14/16	15/16	97/16	13/16
	2.0	15/16	14/16	10/16	7/16	15/16	7/16	15/16	14/16	16/16	99/16	14/16

Note: "Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

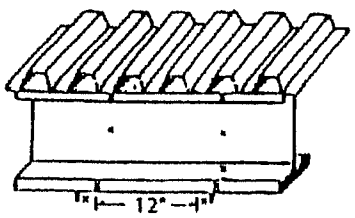
Date 7-16-13 Inspector GJSM

Beam:	13/16	13/16	12/16
Average Required	14/16	15/16	14/16
Average Recorded			
Flange Tip (W/D):	7/16	7/16	6/16
Average Required	9/16	8/16	7/16
Average Recorded	B89	B90	B91

MEETS SPECIFICATION

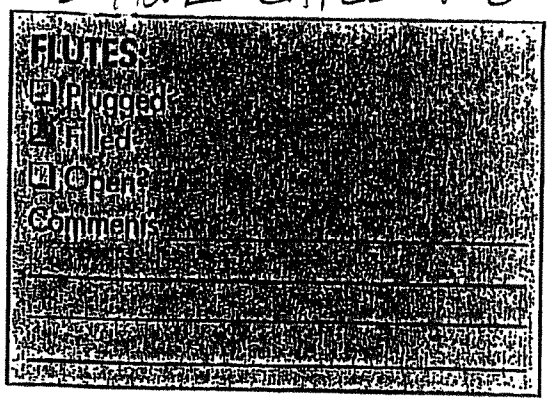
MTC

A.2 Thickness of SFRM on Beam



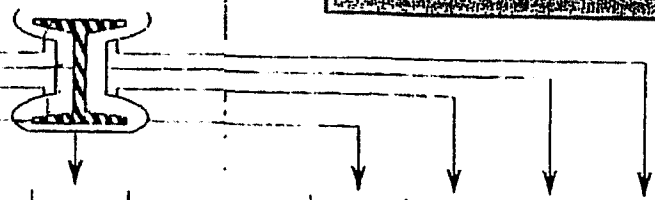
Take 9 measurements at each end of 12-in. length

2 HOUR CAFCO 400



B92 W10X12 - 13/16

B93 W10X12 - 13/16



LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
B92 K-4	17/16	16/16	12/16	9/16	15/16	9/16	12/16	16/16	15/16	103/16	15/16
1.5	15/16	16/16	13/16	9/16	13/16	9/16	13/16	16/16	15/16	101/16	14/16
B93 L-M	16/16	15/16	15/16	9/16	15/16	8/16	11/16	16/16	15/16	103/16	15/16
1.5	13/16	12/16	14/16	8/16	13/16	7/16	11/16	14/16	17/16	94/16	13/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-16-13 Inspector GTSm

Beam: 13/16 13/16

Average Required

Average Recorded 15/16 , 14/16

Flange Tip (W/D): 7/16 7/16

Average Required

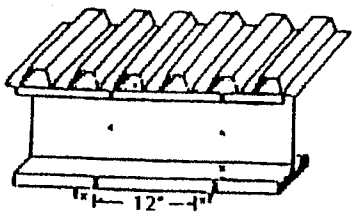
Average Recorded 9/16 , 8/16

B92 B93

MEETS SPECIFICATION

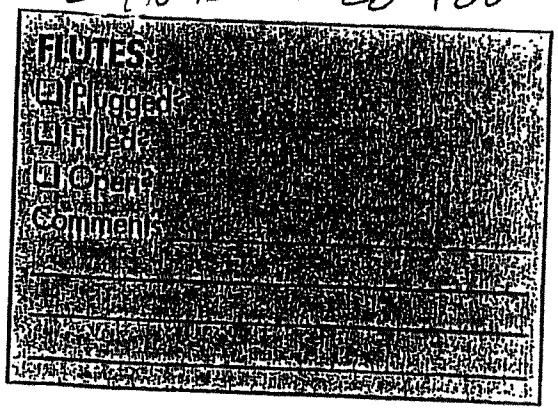
MRD

A.2 Thickness of SFRM on Beam

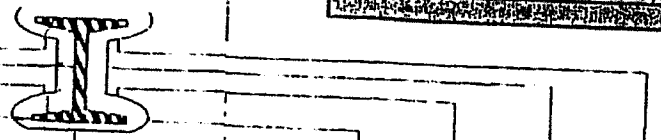


Take 9 measurements at each end of 12-in. length

2 HOUR CAFCO 400



B94 W10X12 – 13/16
B95 W10X12 13/16
B96 W10X12 13/16



LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
B94 A-B	15/16	14/16	12/16	9/16	15/16	9/16	14/16	15/16	15/16	100/16	14/16
83.2	16/16	17/16	14/16	8/16	13/16	9/16	15/16	14/16	15/16	101/16	14/16
B95 B-C	15/16	15/16	16/16	8/16	14/16	9/16	14/16	15/16	16/16	105/16	15/16
83.2	17/16	16/16	13/16	8/16	14/16	9/16	15/16	15/16	16/16	104/16	15/16
B96 A-B	15/16	15/16	15/16	8/16	13/16	9/16	15/16	15/16	17/16	105/16	15/16
82	15/16	14/16	13/16	8/16	13/16	9/16	15/16	16/16	15/16	101/16	14/16

Note: "Average the Flange Tip measurements separately" when a reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

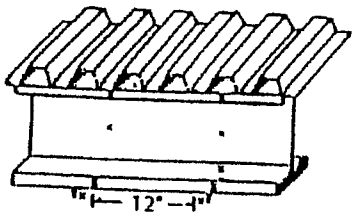
Date 7-22-03 Inspector GSM

Beam:			
Average Required	13/16	13/16	13/16
Average Recorded	14/16	15/16	15/16
Flange Tip (W/D):			
Average Required	7/16	7/16	7/16
Average Recorded	9/16	9/16	9/16
	B94	B95	B96

MEETS SPECIFICATION

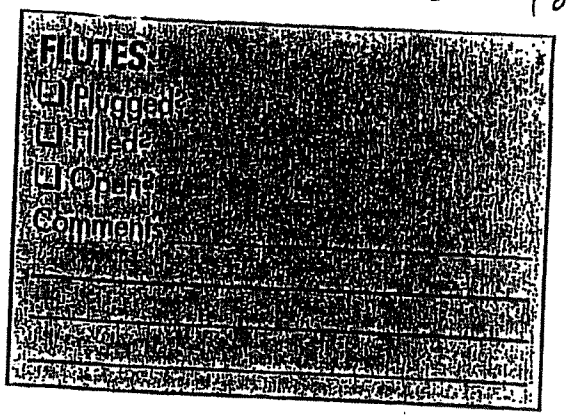
MTC

A.2 Thickness of SFRM on Beam

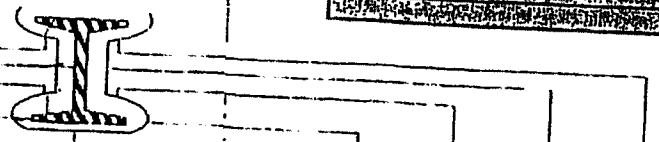


Take 9 measurements at each end of 12-in. length

2 HOUR CAFCO 400



B97 W14X22 12/16
B98 W10X12 13/16
B99 W12X14 13/16



	LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
397	B1	16/16	13/16	10/16	7/16	12/16	9/16	12/16	14/16	15/16	92/16	13/16
	B2	15/16	13/16	11/16	9/16	13/16	9/16	12/16	14/16	13/16	91/16	13/16
398	B-4	17/16	13/16	12/16	7/16	12/16	8/16	14/16	15/16	17/16	100/16	14/16
	B1.5	15/16	15/16	11/16	8/16	12/16	7/16	14/16	13/16	15/16	95/16	14/16
399	A-B1	17/16	16/16	14/16	9/16	13/16	8/16	15/16	15/16	14/16	104/16	15/16
	B1	17/16	16/16	15/16	9/16	14/16	8/16	15/16	13/16	15/16	105/16	15/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-22-13 Inspector GSm

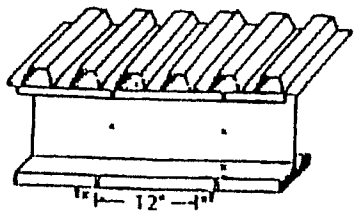
Beam:	B97	B98	B99
Average Required	12/16	13/16	13/16
Average Recorded	13/16	14/16	15/16
Flange Tip (W/D):	6/16	7/16	7/16
Average Required			
Average Recorded	9/16	8/16	9/16

MEETS SPECIFICATION

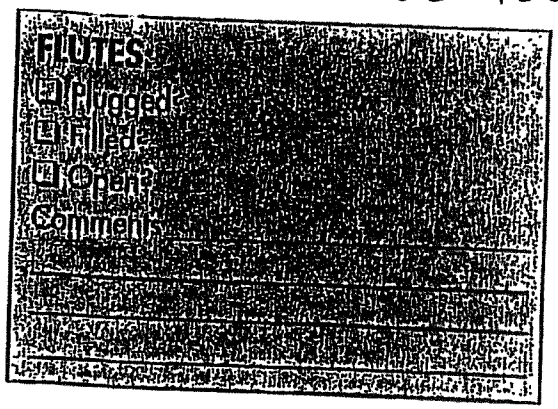
MTG

2 Hour CAFCO 400

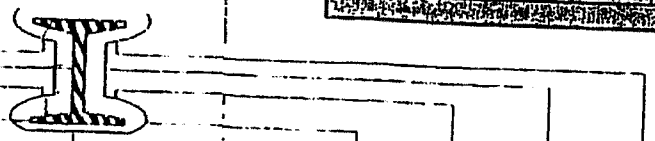
A.2 Thickness of SFRM on Beam



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



B100 W14X22 12/16
B101 W12X14 13/16
B102 W18X35 10/16



LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
3100 B/	15/16	13/16	10/16	7/16	14/16	9/16	14/16	14/16	15/16	95/16	14/16
80-81	16/16	16/16	11/16	9/16	14/16	9/16	13/16	14/16	14/16	98/16	14/16
3101 A-B/	13/16	13/16	13/16	7/16	15/16	7/16	13/16	15/16	16/16	98/16	14/16
80-8	13/16	13/16	14/16	7/16	15/16	7/16	12/16	16/16	16/16	99/16	14/16
102 A-B/	12/16	12/16	10/16	7/16	13/16	7/16	12/16	13/16	12/16	85/16	12/16
80	12/16	13/16	10/16	7/16	13/16	7/16	13/16	13/16	12/16	87/16	12/16

Note: *Average the Flange Tip measurements separately, where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-22-15 Inspector GSM

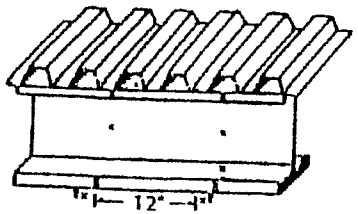
Beam:			
Average Required	12/16	13/16	10/16
Average Recorded	14/16	14/16	12/16
Flange Tip (W/D):			
Average Required	6/16	7/16	5/16
Average Recorded	9/16	7/16	7/16
	B100	B101	B102

MEETS SPECIFICATION

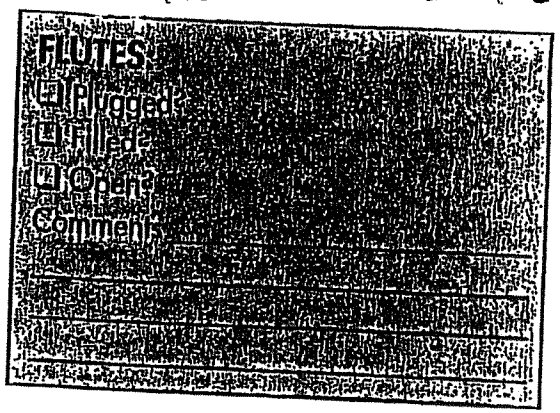
MTC

2 Hour CAFCO 400

A.2 Thickness of SFRM on Beam



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



B103 W10X12 13/16
B104 W10X12 13/16
B105 W24X55 9/16

LOCATION	1	2	3	4"	5	6"	7	8	9	TOTAL	AVERAGE
B103 JJ-KK	17/16	16/16	17/16	9/16	13/16	9/16	15/16	17/16	15/16	106/16	15/16
53	16/16	16/16	17/16	9/16	13/16	9/16	16/16	15/16	15/16	104/16	15/16
B104 JJ-KK	15/16	16/16	15/16	8/16	15/16	9/16	13/16	17/16	15/16	108/16	15/16
52.5	15/16	16/16	12/16	9/16	17/16	9/16	12/16	14/16	17/16	99/16	14/16
B105 JJ	12/16	12/16	12/16	7/16	12/16	7/16	12/16	12/16	12/16	84/16	12/16
53	12/16	12/16	10/16	6/16	12/16	8/16	12/16	12/16	12/16	82/16	12/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

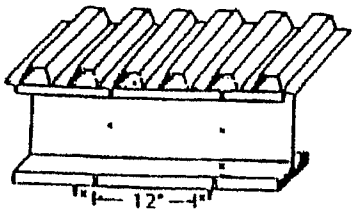
Date 7-22-12 Inspector GSM

Beam:			
Average Required	13/16	13/16	9/16
Average Recorded	15/16	15/16	13/16
Flange Tip (W/D):			
Average Required	7/16	7/16	5/16
Average Recorded	9/16	9/16	7/16
	B103	B104	B105

MEETS SPECIFICATION

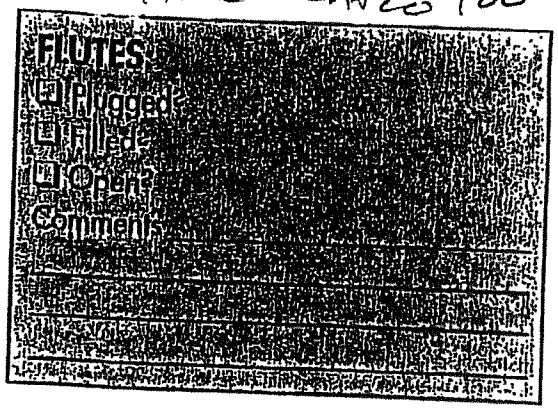
MTG

A.2 Thickness of SFRM on Beam

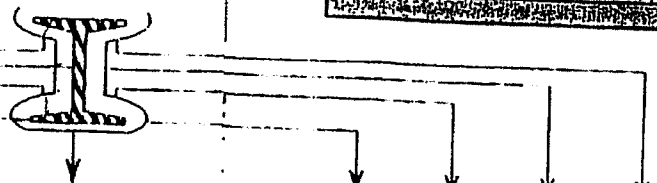


Take 9 measurements at each end of 12-in. length

2 HOUR CAFCO 400



B106 W10X12 13/16
B107 W14X22 12/16
B108 W14X22 12/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
3106 GG-HH/	17/16	13/16	15/16	9/16	11/16	8/16	15/16	14/16	15/16	100/16	14/16
55.8	15/16	15/16	13/16	8/16	12/16	9/16	13/16	14/16	16/16	98/16	14/16
3107 DD-EE/	15/16	14/16	9/16	8/16	12/16	9/16	17/16	15/16	14/16	92/16	13/16
52.2	15/16	15/16	10/16	8/16	10/16	9/16	9/16	13/16	15/16	87/16	12/16
3108 DD-EE/	15/16	16/16	10/16	7/16	10/16	8/16	14/16	15/16	15/16	95/16	14/16
51	16/16	15/16	12/16	7/16	12/16	8/16	13/16	14/16	15/16	97/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

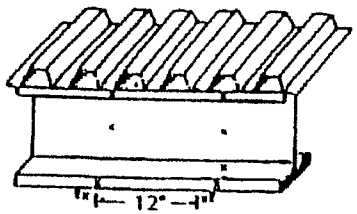
Date 7-22-13 Inspector GSM

Beam:			
Average Required	13/16	12/16	13/16
Average Recorded	14/16	13/16	14/16
Flange Tip (W/D):			
Average Required	7/16	6/16	8/16
Average Recorded	9/16	9/16	8/16
	B106	B107	B108

MEETS SPECIFICATION

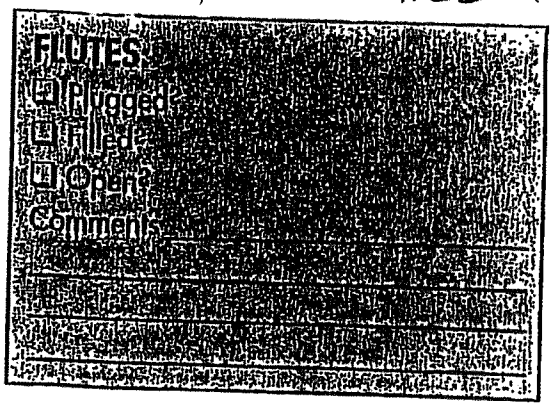
MTD

A.2 Thickness of SFRM on Beam

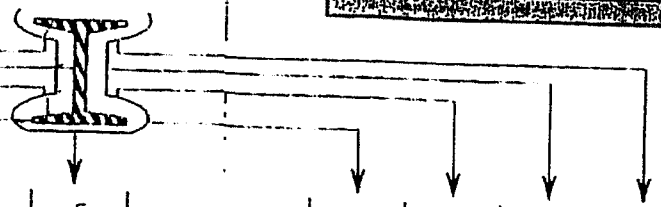


Take 9 measurements at each end of 12-in. length

2 HUNK CAFCO 400



B109 W12X14 12/16
B110 W24X55 9/16
B111 W12X14 12/16



LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
B109 FF-GG/	16/16	14/16	11/16	9/16	10/16	8/16	13/16	15/16	14/16	94/16	13/16
50.5	16/16	15/16	12/16	8/16	12/16	8/16	13/16	15/16	15/16	98/16	14/16
B110 GG/	12/16	12/16	10/16	7/16	11/16	7/16	12/16	12/16	12/16	82/16	12/16
50-9/	12/16	12/16	10/16	6/16	11/16	7/16	12/16	12/16	12/16	81/16	12/16
B111 FF-GG/	16/16	15/16	12/16	8/16	12/16	9/16	12/16	13/16	14/16	94/16	13/16
50.5	15/16	15/16	12/16	7/16	13/16	8/16	12/16	15/16	15/16	97/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 1-22-93 Inspector GJSM

24

Beam:

Average Required	12/16	9/16	13/16
Average Recorded	14/16	13/16	14/16
Flange Tip (W/D):			
Average Required	6/16	5/16	6/16
Average Recorded	8/16	7/16	8/16
	B109	B110	B111

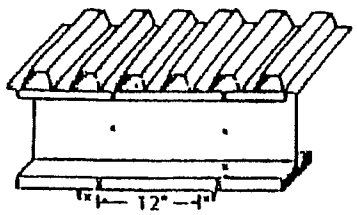
MEETS SPECIFICATION

MTG

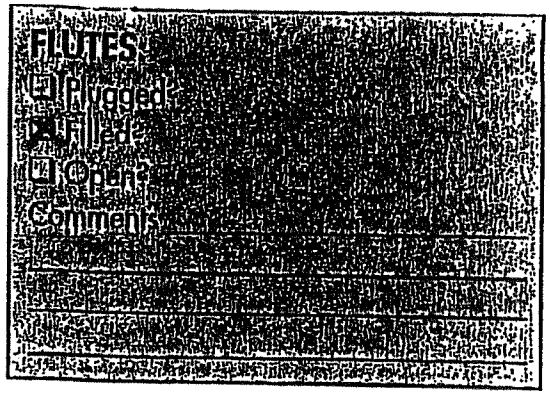
25

2 HOVR CAFCO 400

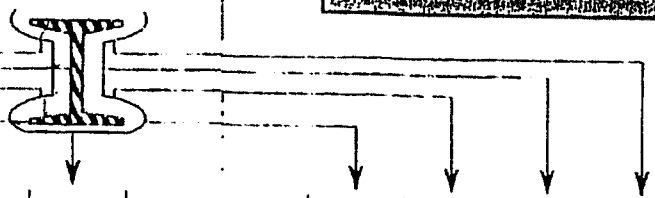
A.2 Thickness of SFRM on Beam



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



B112 W12x14 13/16
B113 W16x26 12/16
B114 W12x14 13/16



LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
B112 J-K/	15/16	17/16	13/16	16/16	12/16	9/16	13/16	14/16	16/16	100/16	14/16
8.5	16/16	15/16	12/16	10/16	12/16	9/16	13/16	15/16	17/16	100/16	14/16
B113 JJ-KK/	16/16	15/16	10/16	7/16	12/16	8/16	13/16	17/16	15/16	94/16	13/16
92	16/16	14/16	11/16	8/16	12/16	8/16	12/16	15/16	12/16	92/16	13/16
B114 JJ-KK/	15/16	17/16	13/16	9/16	12/16	8/16	17/16	15/16	16/16	101/16	14/16
81	15/16	14/16	14/16	9/16	10/16	9/16	12/16	15/16	17/16	97/16	14/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-22-2 Inspector

Beam:
Average Required 13/16 12/16 13/16
Average Recorded 14/16, 13/16, 14/16

Flange Tip (W/D):
Average Required 7/16 6/16 7/16
Average Recorded 10/16 8/16, 9/16

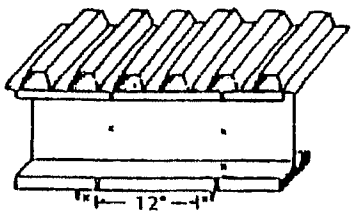
B112 B113 B114

MEETS SPECIFICATION

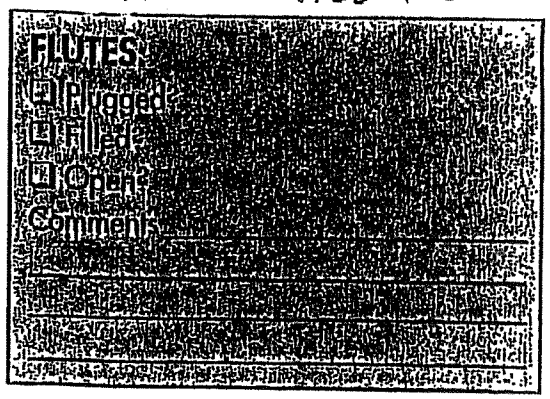
MC

2 Hour CAFE 400

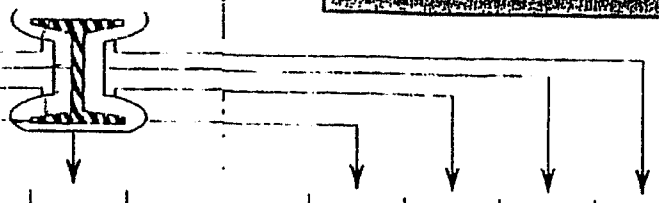
A.2 Thickness of SFRM on Beam



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



B115 W16X26 - 20/16
B116 W10X12 - 24/16
B117 W14X22 20/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B115 A-B	22/16	22/16	20/16	12/16	22/16	12/16	23/16	18/16	20/16	147/16	21/16
5,8	23/16	21/16	20/16	10/16	22/16	12/16	24/16	20/16	19/16	149/16	21/16
7/16 B-C	26/16	25/16	22/16	14/16	26/16	12/16	26/16	25/16	25/16	174/16	25/16
5,4	26/16	24/16	21/16	14/16	23/16	12/16	26/16	27/16	25/16	173/16	25/16
3117 A-B	23/16	23/16	18/16	12/16	21/16	12/16	23/16	24/16	23/16	135/16	22/16
	22/16	22/16	17/16	12/16	24/16	19/16	24/16	19/16	23/16	151/16	22/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-23-13 Inspector GSM

24

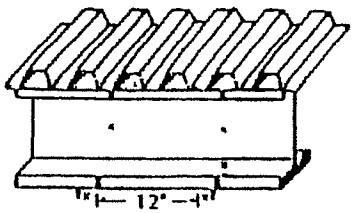
Beam:	20/16	24/16	20/16
Average Required	21/16	25/16	22/16
Average Recorded			
Flange Tip (W/D):	10/16	12/16	10/16
Average Required	12/16	13/16	12/16
Average Recorded			
	B115	B116	B117

MUSTS SPECIFICATION

MTC

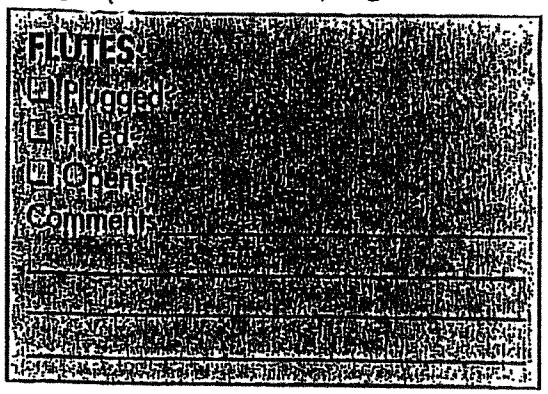
25

A.2 Thickness of SFRM on Beam

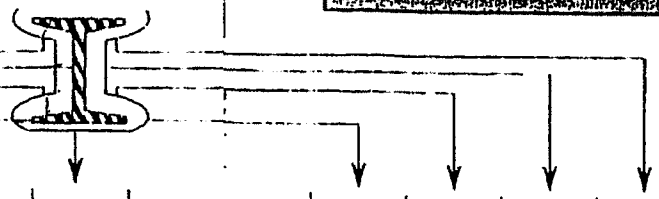


Take 9 measurements at each end of 12-in. length

2 Hour CAFCO 400



B118 W10X12 24/16
B119 W16X26 20/16
B120 W10X12 24/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B118 B-C	27/16	27/16	21/16	15/16	22/16	13/16	27/16	21/16	29/16	177/16	25/16
3.8	26/16	26/16	21/16	15/16	22/16	15/16	26/16	21/16	27/16	168/16	24/16
B119 A-B	23/16	24/16	19/16	12/16	21/16	13/16	24/16	21/16	23/16	155/16	22/16
3.8	23/16	22/16	17/16	13/16	22/16	13/16	23/16	22/16	23/16	157/16	22/16
B120 B-C	27/16	26/16	23/16	17/16	22/16	14/16	25/16	25/16	26/16	174/16	25/16
3.5	26/16	26/16	22/16	17/16	21/16	14/16	25/16	26/16	27/16	177/16	25/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL		
AVERAGE		
AVERAGE*		

Date 7-23-13 Inspector GSM

Beam:

Average Required	24/16	20/16	24/16
Average Recorded	25/16	23/16	25/16
Flange Tip (W/D):			
Average Required	17/16	10/16	12/16
Average Recorded	15/16	13/16	14/16

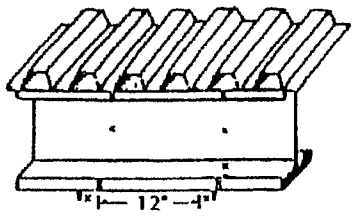
MEETS SPECIFICATION

B118 B119 B120

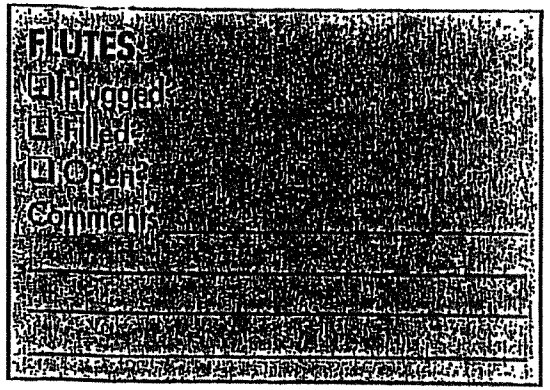
MTC

2 HOUR CAT20 400

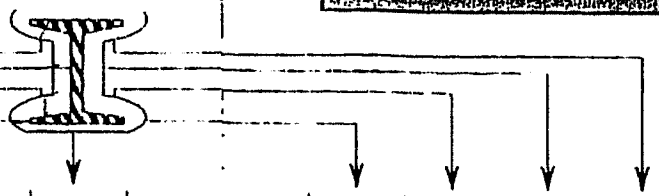
A.2 Thickness of SFRM on Beam



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



B121 W10X12 24/16
B122 W16X26 20/16
B123 W16X26 20/16



	Location	1	2	3	4*	5	6*	7	8	9	Total	Average
B121	B-C	27/16	25/16	22/16	15/16	27/16	15/16	25/16	24/16	26/16	179/16	25/16
	3.2	27/16	27/16	26/16	15/16	24/16	15/16	25/16	22/16	27/16	179/16	25/16
B122	A-B	24/16	22/16	18/16	12/16	17/16	17/16	24/16	22/16	24/16	149/16	21/16
	3	23/16	22/16	19/16	11/16	19/16	13/16	24/16	22/16	24/16	153/16	22/16
B123	A-B	24/16	24/16	16/16	17/16	17/16	17/16	24/16	20/16	22/16	147/16	21/16
	1.5	23/16	23/16	19/16	11/16	18/16	17/16	24/16	20/16	23/16	150/16	21/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 7-23-13 Inspector GJSm

Beam:

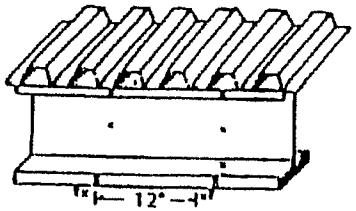
Average Required	24/16	20/16	20/16
Average Recorded	25/16	22/16	21/16
Flange Tip (W/D):			
Average Required	12/16	10/16	10/16
Average Recorded	15/16	12/16	13/16

MEETS SPECIFICATI

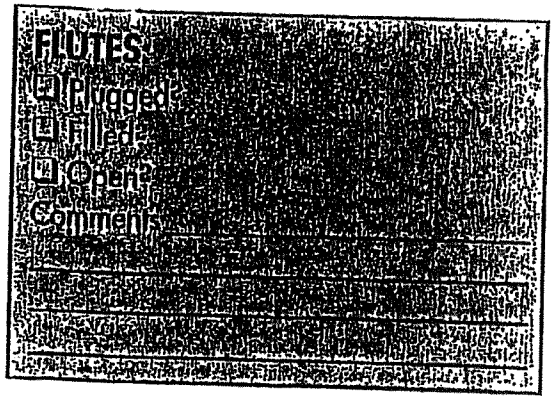
B121 B122 B123

MTC

A.2 Thickness of SFRM on Beam

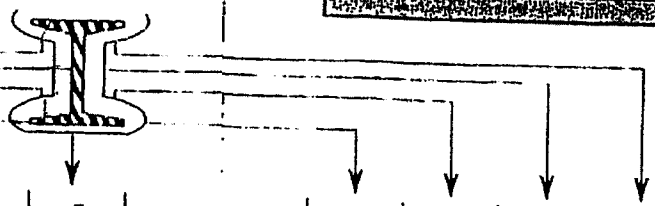


Take 9 measurements at each end of 12-in. length



3 Hour
CAFCO: 300

B127 W10X12 = 23/16
B128 W8X35 = 16/16
B129 16X26 = 20/16



LOCATION	1	2	3	4*	5	6*	7	8	9	Total	Average
B127	26/16	24/16	21/16	12/16	22/16	12/16	23/16	24/16	23/16	193/16	23/16
	25/16	23/16	21/16	11/16	24/16	11/16	20/16	29/16	26/16	161/16	23/16
B128	17/16	18/16	19/16	9/16	17/16	9/16	18/16	19/16	16/16	124/16	18/16
	18/16	18/16	17/16	9/16	17/16	10/16	18/16	19/16	19/16	126/16	18/16
B129	22/16	20/16	19/16	10/16	22/16	10/16	19/16	21/16	27/16	146/16	21/16
	22/16	19/16	20/16	11/16	21/16	10/16	19/16	20/16	23/16	144/16	21/16

Note: *Average the Flange Tip measurements separately when reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

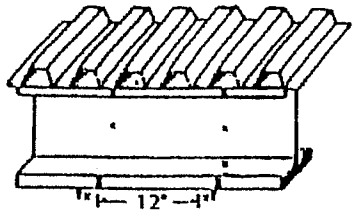
Date 8-14 Inspector GSM

AVERAGE*

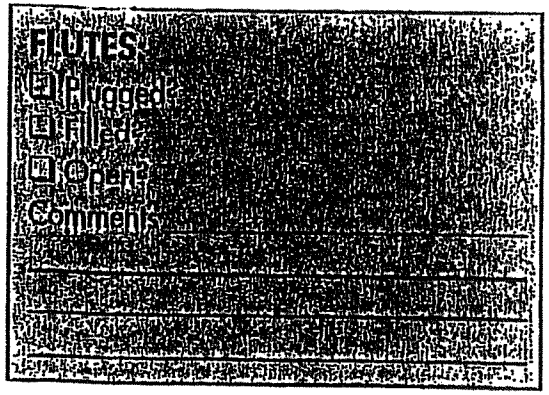
Beam:			
Average Required	23/16	16/16	20/16
Average Recorded	23/16	18/16	21/16
Flange Tip (W/D):			
Average Required	12/16	8/16	10/16
Average Recorded	12/16	9/16	10/16
	B127	B128	B129

MEETS SPECIFICATION

A.2 Thickness of SFRM on Beam



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

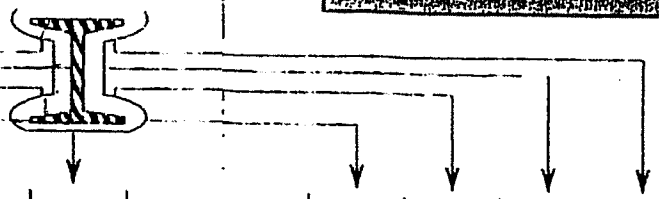


3 Hour
CAFCO 300

B130 W16x31: 19/16

B131 W10x12: 23/16

B132 W16x26: 20/16



LOCATION	1	2	3	4"	5	6"	7	8	9	TOTAL	AVERAGE
B130	20/16	21/16	18/16	8/16	21/16	9/16	17/16	21/16	21/16	139/16	20/16
	21/16	20/16	19/16	8/16	20/16	8/16	17/16	21/16	21/16	139/16	20/16
B131	23/16	25/16	20/16	12/16	23/16	17/16	22/16	24/16	23/16	164/16	23/16
	25/16	24/16	22/16	12/16	22/16	14/16	23/16	24/16	24/16	164/16	23/16
B132	20/16	21/16	19/16	11/16	21/16	10/16	21/16	22/16	23/16	145/16	21/16
	19/16	19/16	18/16	10/16	22/16	10/16	22/16	21/16	23/16	144/16	21/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 8-14 Inspector

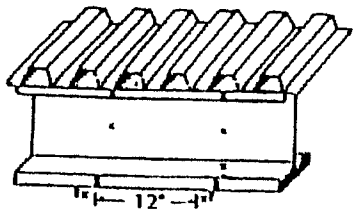
Beam:	B130	B131	B132
Average Required	19/16	23/16	20/16
Average Recorded	20/16	23/16	21/16
Flange Tip (W/D):			
Average Required	8/16	12/16	10/16
Average Recorded	8/16	13/16	10/16

MEETS SPECIFICATE

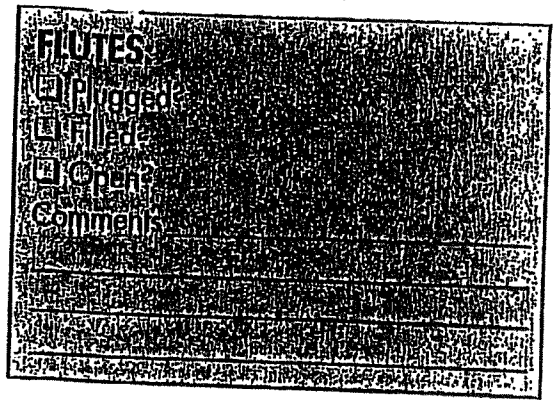
MR

3 HOUR RATING CAFCO 300

A.2 Thickness of SFRM on Beam



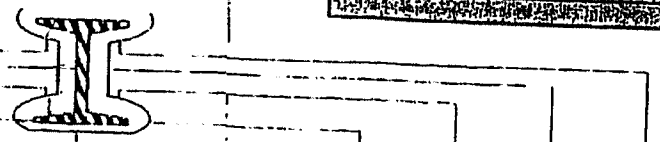
Take 9 measurements at each end of 12-in. length



B132 W16X26 20/16

B134 W10X12 23/16

B135 W16X16 20/16



LOCATION	1	2	3	4"	5	6"	7	8	9	Total	Average
B132 AA-BB/	24/16	18/16	19/16	14/16	23/16	12/16	20/16	22/16	23/16	144/16	21/16
54.5	22/16	17/16	21/16	12/16	23/16	12/16	20/16	22/16	23/16	140/16	21/16
B134 BB/	24/16	22/16	22/16	13/16	22/16	12/16	23/16	25/16	26/16	168/16	24/16
53.0	24/16	22/16	22/16	12/16	23/16	13/16	24/16	24/16	26/16	167/16	24/16
B135 AA/	22/16	21/16	19/16	10/16	20/16	11/16	21/16	22/16	22/16	147/16	21/16
53.5	22/16	21/16	20/16	12/16	21/16	12/16	22/16	22/16	22/16	150/16	21/16

Note: "Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 8-20 Inspector GSM

24

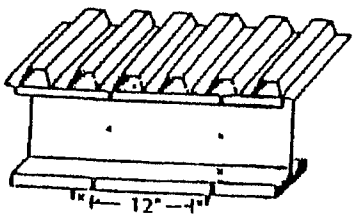
Beam:

Average Required	20/16	23/16	20/16
Average Recorded	21/16	24/16	21/16
Flange Tip (W/D):			
Average Required	10/16	12/16	10/16
Average Recorded	12/16	13/16	11/16

B133 B134 B135 MEETS SPECIFICATION MTG

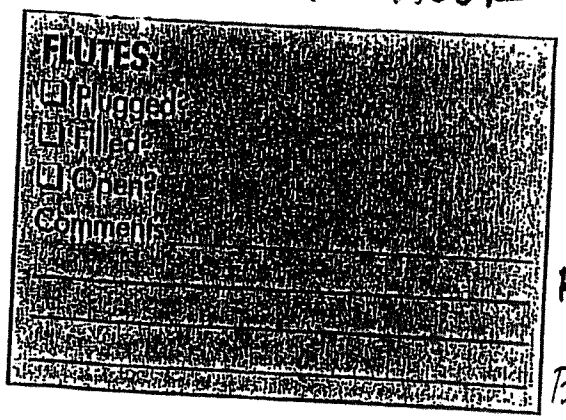
25

A.2 Thickness of SFRM on Beam



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

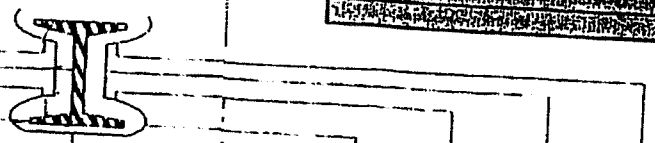
3-Hour CAFCO 300



B136 W16X26 -20/16

B137 W10X12 - 23/16

B138 W16X26-20/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B136 AA/	22/16	21/16	22/16	14/16	22/16	10/16	22/16	19/16	21/16	179/16	21/16
53.2	22/16	22/16	21/16	12/16	21/16	12/16	21/16	24/16	22/16	151/16	22/16
B137 BB/	23/16	23/16	25/16	12/16	24/16	12/16	24/16	25/16	26/16	160/16	24/16
53.2	24/16	24/16	23/16	13/16	26/16	12/16	26/16	26/16	26/16	175/16	25/16
B138 AA/	22/16	22/16	23/16	12/16	22/16	12/16	21/16	20/16	22/16	152/16	22/16
53.0	21/16	23/16	23/16	13/16	22/16	13/16	21/16	21/16	22/16	153/16	22/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 8-21 Inspector

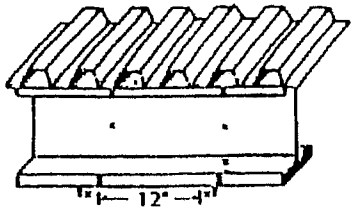
Beam:	B136	B137	B138
Average Required	20/16	23/16	20/16
Average Recorded	22/16	25/16	22/16
Flange Tip (W/D):			
Average Required	10/16	12/16	10/16
Average Recorded	11/16	12/16	13/16

MEETS SPECIFICATION

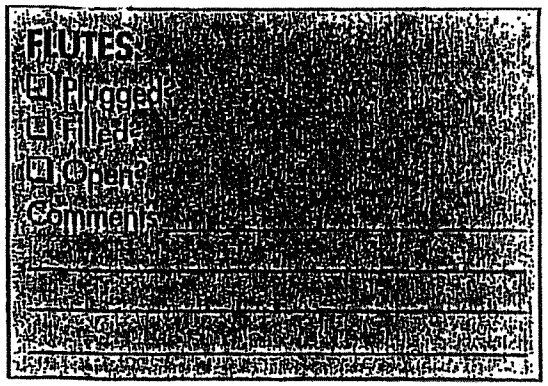
MTG

3-Hour CAFCO 300

A.2 Thickness of SFRM on Beam



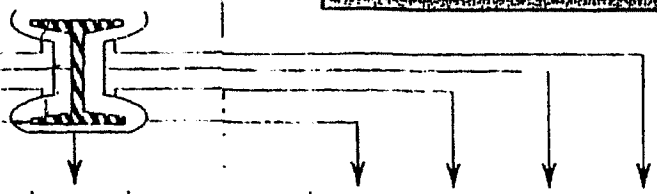
Take 9 measurements at each end of 12-in. length



B139 W10X12 – 23/16

B140 W16X31 – 17/16

B141 W16X31 – 17/16



LOCATION	1	2	3	4*	5	6*	7	8	9	Avg	Average
B139 BB/	25/16	23/16	23/16	12/16	24/16	12/16	23/16	24/16	25/16	169/16	24/16
52.0	24/16	22/16	24/16	12/16	24/16	12/16	24/16	25/16	25/16	169/16	24/16
B140 AA-BB/	20/16	20/16	21/16	10/16	21/16	9/16	21/16	20/16	21/16	149/16	21/16
52.5	21/16	20/16	21/16	10/16	21/16	10/16	21/16	21/16	21/16	146/16	21/16
B141 AA/	20/16	21/16	21/16	10/16	19/16	10/16	21/16	20/16	19/16	141/16	20/16
52.0	21/16	20/16	21/16	10/16	19/16	10/16	19/16	19/16	19/16	138/16	20/16

Note: *Average the Flange Tip measurements separately when reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

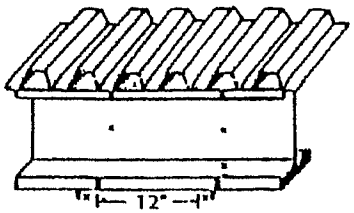
Date 8-21 Inspector GSM

Beam:			
Average Required	23/16	17/16	17/16
Average Recorded	24/16	21/16	20/16
Flange Tip (W/D):		8/16	8/16
Average Required	12/16		
Average Recorded	12/16	10/16	10/16

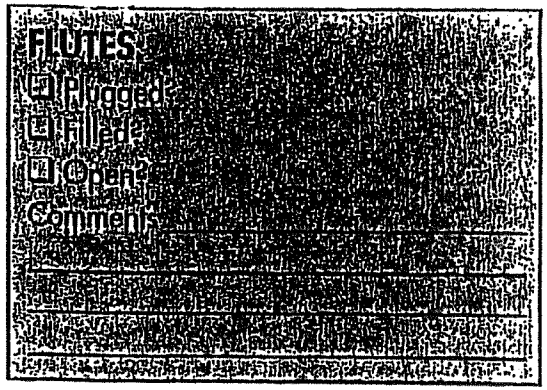
MEETS SPECIFICATIO

B139 B140 B141 MTG

A.2 Thickness of SFRM on Beam



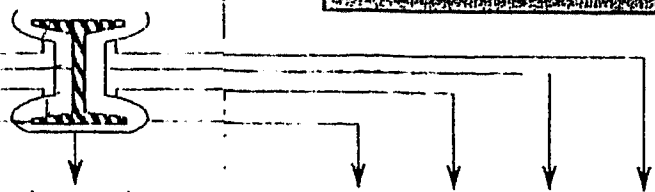
Take 9 measurements at each end of 12-in. length



B142 W16X26 = 20/16

B143 W12X14 = 23/16

B144 W12X14 = 23/16



LOCATION	1	2	3	4*	5	6*	7	8	9	TOTAL	AVERAGE
B142 AA-BB/50	21/16	22/16	18/16	11/16	21/16	11/16	19/16	21/16	22/16	144/16	21/16
	22/16	23/16	19/16	14/16	22/16	11/16	20/16	23/16	22/16	151/16	22/16
B143 BB-CC/ 49.5	25/16	24/16	21/16	13/16	24/16	13/16	21/16	22/16	24/16	162/16	23/16
	26/16	26/16	20/16	14/16	26/16	12/16	25/16	25/16	24/16	172/16	25/16
B144 AA-BB/ 49	26/16	25/16	21/16	14/16	26/16	13/16	22/16	24/16	25/16	169/16	24/16
	27/16	27/16	21/16	13/16	26/16	13/16	23/16	24/16	25/16	173/16	25/16

Note: *Average the Flange Tip measurements separately where reduced thicknesses are applied under W/D formula

TOTAL

AVERAGE

AVERAGE*

Date 9/16 Inspector GSM

Beam:

	B142	B143	B144
Average Required	20/16	23/16	23/16
Average Recorded	22/16	24/16	25/16
Flange Tip (W/D):			
Average Required	10/16	13/16	13/16
Average Recorded	11/16	13/16	13/16

MEETS SPECIFICATIONS MTC

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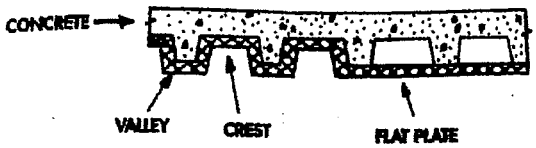
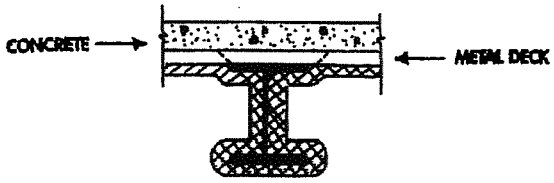


A. Thickness of SFRM on Floor Deck Section



Lay out a 12 in. x 12 in. (300 mm x 300 mm) square and take 4 random symmetrical measurements on each of the following: (1) valley, (2) crest and (3) sides, for a total of 12 measurements.

DAB

LOCATION	CREST	SIDES
A-B/	15/16	15/16
1-2	14/16	16/16
	15/16	13/16
	15/16	14/16
TOTAL	59/16	58/16
AVERAGE		

VALLEY	FLAT PLATE		
15/16			
15/16			
15/16			
15/16			
60/16			
			177/16

Date 9-20-13

Inspector GSM

Average Required 13/16

Average Recorded 15/16

22

23

MEETS SPECIFICATION

MTG

CAFCO 300 3 Hour

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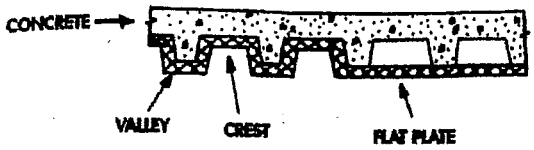
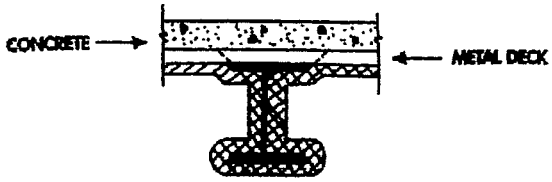


A1 Thickness of SFRM on Floor Deck, Section

Lay out a 12 in. x 12 in. (300 mm x 300 mm) square and take 4 random symmetrical measurements on each of the following: (1) valley, (2) crest and (3) sides, for a total of 12 measurements.



DA5

LOCATION	CREST	SIDES
BB-CC	16/16	15/16
52.8	14/16	14/16
	13/16	13/16
	14/16	13/16
TOTAL	57/16	55/16
AVERAGE		

VALLEY	FLAT PLATE		
15/16			
15/16			
15/16			
15/16			
60/16			
			172/16

Date 9-20-13

Inspector GSM

Average Required 13/16

Average Recorded 14/16

CAFCO 300 3 Hour

MEETS SPECIFICATION

MTG

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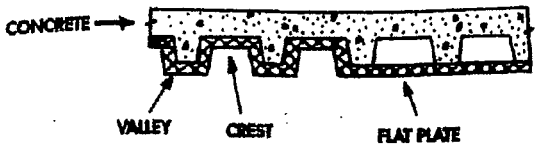
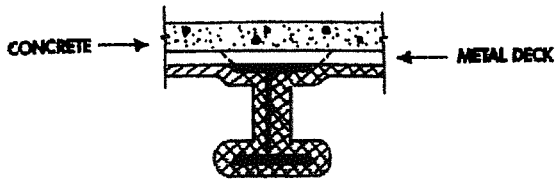


A.1 Thickness of SFRM on Floor Deck Section

Lay out a 12 in. x 12 in. (300 mm x 300 mm) square and take 4 random symmetrical measurements on each of the following: (1) valley, (2) crest and (3) sides, for a total of 12 measurements.



DA4 AA-BB/ 53.8

LOCATION	CREST	SIDES
	15/16	15/16
	13/16	14/16
	12/16	14/16
	15/16	15/16
TOTAL	55/16	58/16
AVERAGE		

VALLEY	FLAT PLATE		
14/16			
16/16			
15/16			
14/16			
61/16			
			174/16

Date 9-20-13
Inspector GSM

Average Required 13/16
Average Recorded 15/16

MEETS SPECIFICATION

MTO

22

23

CAFCO 300 3 Hour

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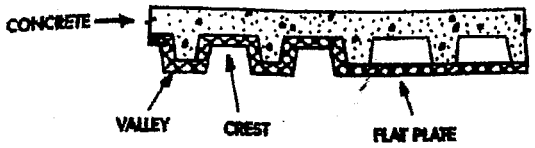
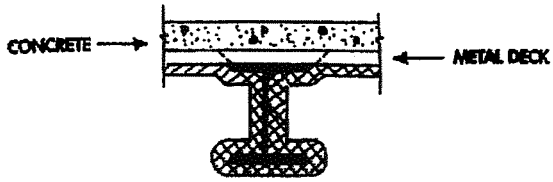


A. Thickness of SFRM on Floor Deck, Section

Lay out a 12 in. x 12 in. (300 mm x 300 mm) square and take 4 random symmetrical measurements on each of the following: (1) valley, (2) crest and (3) sides, for a total of 12 measurements.



3

LOCATION	CREST	SIDES
B-C/	14/16	15/16
7.5	14/16	14/16
	13/16	12/16
	14/16	13/16
TOTAL	55/16	54/16
AVERAGE	14/16	14/16

VALLEY	FLAT PLATE		
14/16			
13/16			
14/16			
14/16			
55/16			
14/16			42/3

Date 7-22-13

Inspector GSM

Average Required 13/16

Average Recorded 14/16 MEETS SPECIFICATION

CAFCO 300 3 Hour

MTG

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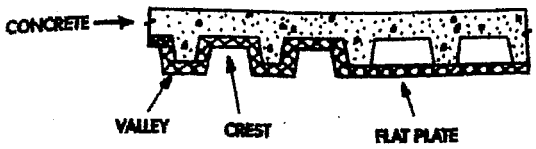
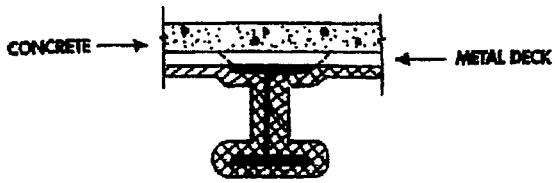


A.1 Thickness of SFRM on Floor Deck Section

Lay out a 12 in. x 12 in. (300 mm x 300 mm) square and take 4 random symmetrical measurements on each of the following: (1) valley, (2) crest and (3) sides, for a total of 12 measurements.



2

LOCATION	CREST	SIDES
A-13/	15/16	13/16
3.5	15/16	13/16
	15/16	12/16
	14/16	15/16
TOTAL	59/16	53/16
AVERAGE	15/16	13/16

Date 7-22-13

Inspector GSM

22

VALLEY	FLAT PLATE		
16/16			
16/16			
12/16			
15/16			
59/16			
15/16	—		43/3

Average Required 13/16

Average Recorded 14/16 MEETS SPECIFICATION

23

CAFCO 300 3 HOUR

MJZ

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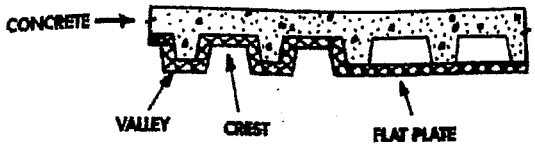
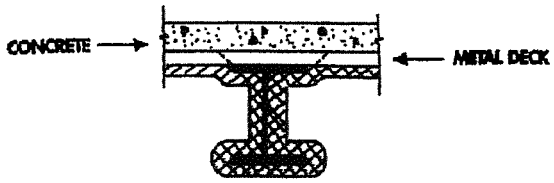


A. Thickness of SFRM on Floor Deck Section

Lay out a 12 in. x 12 in. (300 mm x 300 mm) square and take 4 random symmetrical measurements on each of the following: (1) valley, (2) crest and (3) sides, for a total of 12 measurements.



1

LOCATION	CREST	SIDES
A-B	13/16	15/16
S.B	12/16	15/16
	15/16	12/16
	14/16	13/16
TOTAL	54/16	/16
AVERAGE	14/16	14/16

VALLEY	FLAT PLATE		
15/16			
12/16			
13/16			
15/16			
55/16			
14/16	–		42/3

Date 7-22-13

Inspector GSM

Average Required 13/16

Average Recorded 14/16 MEETS SPECIFICATION

CAFCO 300 3 HOUR

MTG

9-23-13

THE BAY HOUSE

1403-001

CAFCO-300 - 150 PSF REQ'D

COHESION / ADHESION

TEST	TEST LOCATION	CAP DIA.	(IN") CAP AREA	(LBS) (F) FORCE	(PSF) (CA)	FAIL TYPE
	RETAIL / BEAMS	3.250"	.0576			
B1	BB-CC / 55.5			25	434	FIRE PROOFING
B2	AA-BB / 54.5			750	868	NONE
B3	B-C / 1.5			7.36	625	FIRE PROOFING
B4	A-B / 5.0			750	868	NONE
	RETAIL / DECKING	3.250	.0576			
D1	AA-BB / 53			29	503	FIRE PROOFING
D2	BB-CC / 55			24	417	
D3	A-B / 3.5			21	364	
D4	B-C / 2.8			36	625	

MEETS SPECIFICATION MTL

8-5-13

THE BAY HOUSE

1403-001

CAFCO 400 → 434 PSF REQ'D

CA = F/A

CA = COH/ADH FORCE
F = RECORDED FORCE
A = AREA

TEST	LOCATION	CAP DIA	CAP AREA (A) (IN")	F (lbs) FORCE	CA (PSF)	FAIL TYPE
B1	BLDG #2 B-C/87.4	3.250"	.0576	750	7868 PSF	NONE
B2	KK-A/55.5			750	7868 PSF	
B3	KK-A/52.8			750	7868 PSF	
B4	HH-JJ/52.8			31	538 PSF	CAP
B5	HH-JJ/55.5			42	729 PSF	
B6	DD-EE/55.2			750	7868 PSF	NONE
B7	EE-FF/52.5			47	816 PSF	CAP
B8	BLDG #1 L-M/5.2			750	7868 PSF	NONE
B9	J-K/5.2	3.250"	.0576	750	>868 PSF	
B10	H-J/2.8			48	833 PSF	CAP
B11	G-H/5.0			39	677 PSF	
B12	G-H/1.5			28	486 PSF	
B13	E-F/4.0			42	729 PSF	
B14	C-D/7.0			750	7868 PSF	NONE
B15	C-D/3.0			750	>868 PSF	NONE

* BEAMS TESTED *

MEETS SPECIFICATION

MTC

7-23-13

THE BAY HOUSE

1403-001

COHESION / ADHESION

CAFCO 400 → 434 PCF REQ.

CA = F/A

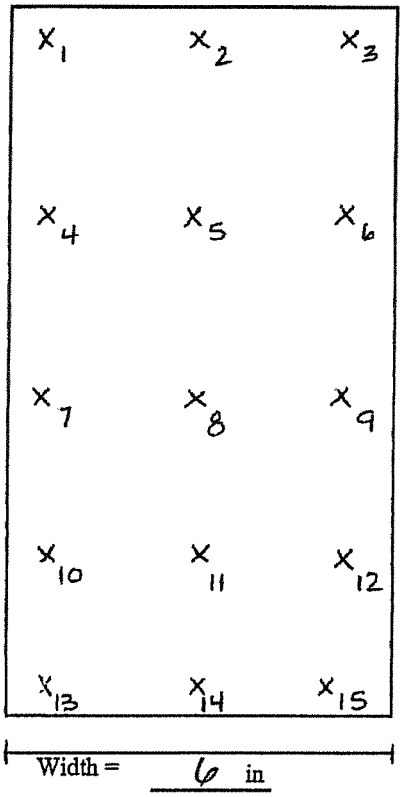
CA = COH/ADH FORCE
F = RECORDED FORCE
A = AREA

TEST	LOCATION		CAP DIA (IN")	CAP AREA (A)	(F) LBS FORCE	PCF (CA)	FAIL TYPE
1	BLDG #2,	B/84	3.250"	.0576	>50	> 868 PCF	NONE
2		KK/82			32	556 PCF	CAP
3		GG/54			47	816 PCF	|
4		EE/52			>50	>868 PCF	NONE
5		EE/9			>50	>868 PCF	|
6		E/9			>50	>868 PCF	|
7		H/9			>50	>868 PCF	
8		J/9			38	660 PCF	CAP
9	BLDG #1	D/2			29	503 PCF	|
10		E/2			34	590 PCF	|
11		D.8/4			>50	>868 PCF	NONE
12		D.8/6			>50	>868 PCF	|
13		G/2			>50	>868 PCF	|
14		J/6			>50	>868 PCF	|
15		K/4					

COLUMNS TESTED

MEETS SPECIFICATION
MTC

Density Calculation Sheet



Length:	12	in	
Width:	6	in	
Thickness:	1.346	in	
Volume:	96.91	in3	.056 cf

Thickness:

MEASUREMENTS BASED ON 16TH OF INCH

1	22
2	21
3	23
4	23
5	21
6	21
7	22
8	22
9	21
10	20
11	19
12	24
13	23
14	21
15	20

Total:	(mm)	—
Total:	(in)	323/15
Avg.:	(in)	21.533/16

1.346

Pan #:	3	
Pan Tare:	.988	lbs
Pan & Wet SFRM:	—	lbs
Pan & Dry SFRM:	2.063	lbs
Dry SFRM:	1.075	lbs
Volume:	.056	cf
Density:	19.2	pcf

>15 PCF MEETS SPEC

COL. LINE AA-BB / 55.8

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

BEAM DETAIL #1

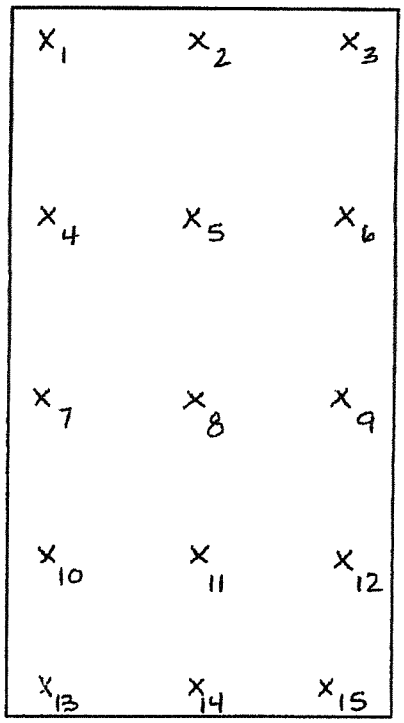
3 HOUR CAFCO 300

15 PCF REQ'D

SAMPLE NUMBER: _____

MR

Density Calculation Sheet



Length:	6 in	
Width:	12 in	
Thickness:	1.588 in	
Volume:	114.336 in3	.066 cf

Thickness:

MEASUREMENTS BASED ON 16TH OF INCH

1	25
2	26
3	27
4	25
5	26
6	26
7	24
8	24
9	24
10	26
11	27
12	27
13	26
14	25
15	26

Total:	(mm)	—
Total:	(in)	381/15
Avg.:	(in)	25.4/10

Pan #:	1	
Pan Tare:	1.018	lbs
Pan & Wet SFRM:	—	lbs
Pan & Dry SFRM:	2.494	lbs
Dry SFRM:	1.476 ~~1.247~~	lbs
Volume:	.066	cf
Density:	22.4 ~~18.9~~	pcf

>15 PCF MEETS SPEC.

COL LINE: 1.5/B-C

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

BEAM RETAIL #2

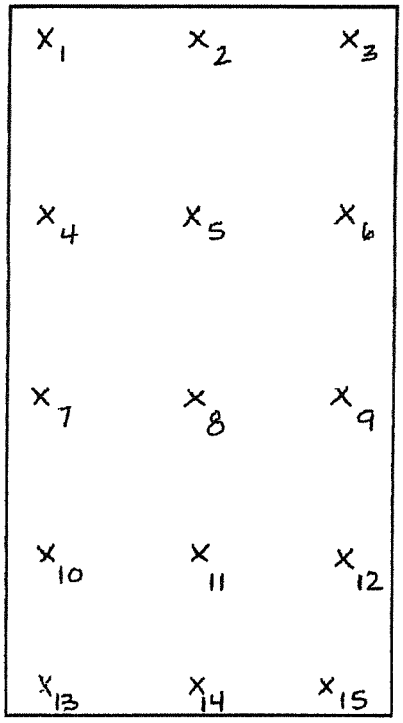
3 HOUR CAFCO 300

5 PCF REQ'D

SAMPLE NUMBER: _____

MTC

Density Calculation Sheet



Length:	12 in	
Width:	6 in	
Thickness:	1.371 in	
Volume:	98.712 in3	.057 cf

Thickness:

MEASUREMENTS BASED ON 16TH OF INCH

1	19
2	21
3	22
4	19
5	22
6	22
7	21
8	21
9	21
10	20
11	20
12	22
13	19
14	19
15	21

Total: (mm) _____

Total: (in) 329/15,

Avg.: (in) 21.93/16 = 1.371

Pan #:	111	
Pan Tare:	.997	lbs
Pan & Wet SFRM:	—	lbs
Pan & Dry SFRM:	2.126	lbs
Dry SFRM:	1.129	lbs
Volume:	.057	cf
Density:	19.81	pcf

>15 PCF MEETS SPEC

COL. LINE: AA-BB/53.5

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

BEAM, RETAIL #1

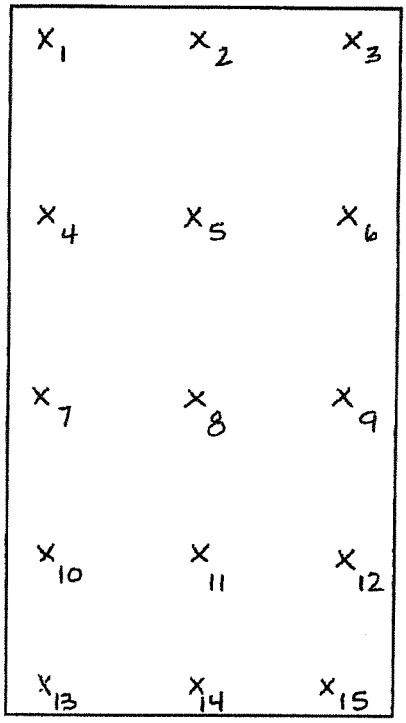
3 HOUR, CAFCO 300

15 PCF REQ'D

SAMPLE NUMBER: _____

MTL

Density Calculation Sheet



CAFCO 400 – 22 PCF REQD

Length:	12	in	
Width:	6	in	
Thickness:	~~.833~~ 0.942	in	.039
Volume:	~~59.98~~ 67.824	in3	.0375 cf

59.976 / 1728 =

Thickness:

1	1.125	
2	.750	
3	.875	
4	1.00	
5	1.00	
6	.750	
7	.750	
8	.750	4.50
9	.875	4.00
10	1.00	
11	1.00	7.00
12	.875	1.75
13	1.125	
14	1.125	
15	1.125	

Total:	(mm)	
Total:	(in)	~~13.25~~ 14.125
Avg.:	(in)	~~.883~~ 0.942

Pan #:	111
Pan Tare:	.527 lbs
Pan & Wet SFRM:	— lbs
Pan & Dry SFRM:	1.479 lbs
Dry SFRM:	.952 lbs
Volume:	~~.0375~~ .039 cf
Density:	~~22.2~~ pcf

24.3 > 22 PCF
MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

BLDG 2

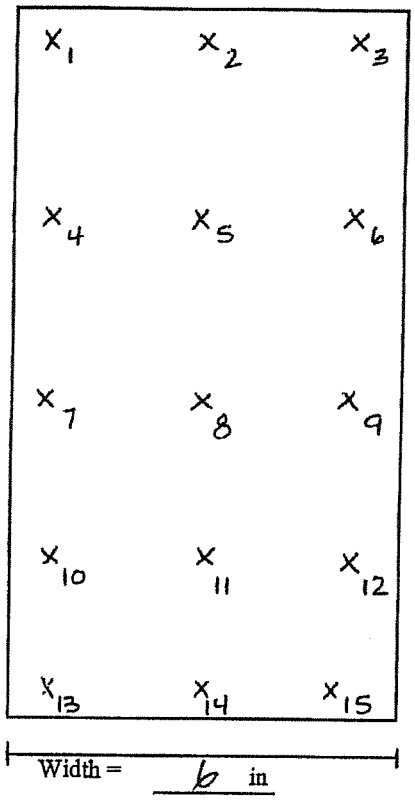
BEAM

B-C/80-81

SAMPLE NUMBER: D1

MTC

Density Calculation Sheet



CAFCO 400 – 22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	.908	in	
Volume:	65.41	in3	.038 cf

Thickness:

1	.750
2	.750
3	.688
4	.688
5	1.000
6	1.00
7	.875
8	.938
9	.938
10	1.00
11	1.125
12	1.00
13	1.00
14	1.125
15	.750

15/16 = .938
11/16 = .688
9/16 = .563

Total:	(mm)	
Total:	(in)	13.627
Avg.:	(in)	.908

Pan #:	4	
Pan Tare:	1.976	lbs
Pan & Wet SFRM:	—	lbs
Pan & Dry SFRM:	3.048	lbs
Dry SFRM:	1.072	lbs
Volume:	.038	cf
Density:	28.2	pcf

>15 PCF MEETS SPECIFICATION

2.25
1.376
5.00
.875
1.876
2.25

1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

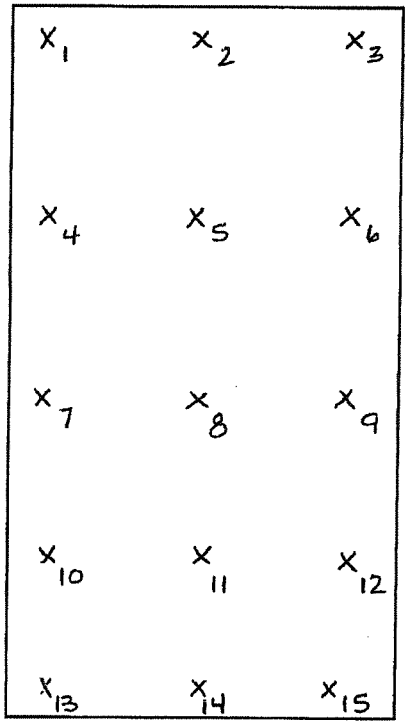
BEAM

BLDG 2
H-J/9-10

SAMPLE NUMBER: D2

MTG

Density Calculation Sheet



CAFCO 400 - 22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	~~.916~~ 0.979	in	1.041
Volume:	~~65.95~~ 70.502	in3	~~.038~~ cf

Thickness:

1	1.00	4.00
2	1.125	1.125
3	1.250	2.500
4	1.250	3.500
5	1.000	1.750
6	1.000	1.876
7	.875	
8	.875	
9	.750	
10	~~.938~~	
11	.938	
12	1.00	
13	~~.938~~	
14	.875	
15	.875	

Total:	(mm)		
Total:	(in)	~~3.751~~ 14.689	
Avg.:	(in)	~~.916~~ .979	

Pan #:	2	
Pan Tare:	.750	lbs
Pan & Wet SFRM:		lbs
Pan & Dry SFRM:	1.791	lbs
Dry SFRM:	1.041	lbs
Volume:	~~.038~~ .041	cf
Density:	~~27.35~~ 26.27	pcf

> 22 PCF

MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

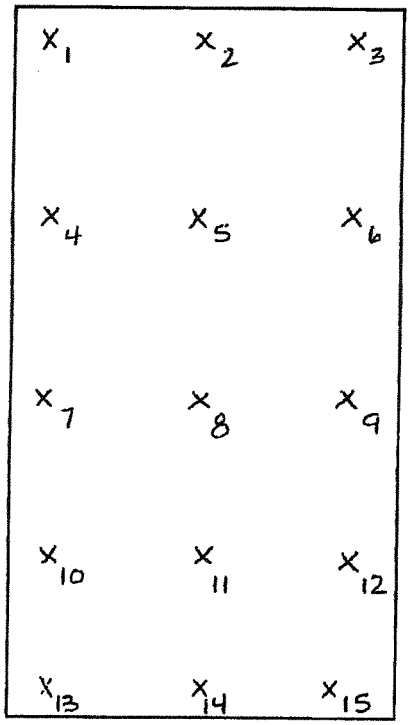
BEAM

BLDG 2

G1/50-51

SAMPLE NUMBER: D3

Density Calculation Sheet



CAFCO 400 - 22 PCF REQ'D

Length:	12 in	
Width:	6 in	
Thickness:	.754 in	
Volume:	54.29 in3	.031 cf

Thickness:

1	.750	
2	.750	
3	.625	
4	.625	
5	.750	3.00
6	.875	2.50
7	1.00	
8	.875	3.50
9	.750	1.75
10	.563	1.563
11	.625	
12	.750	
13	.875	
14	.875	
15	.625	

Total: (mm) _____
Total: (in) 11.313
Avg.: (in) .754

Pan #:	A4	
Pan Tare:	.876	lbs
Pan & Wet SFRM:	—	lbs
Pan & Dry SFRM:	1.679	lbs
Dry SFRM:	.803	lbs
Volume:	.031	cf
Density:	25.9	pcf >22 PCF

MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

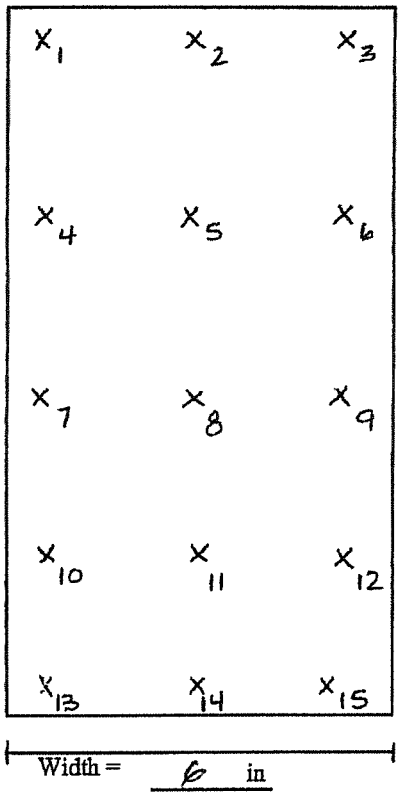
BEAM

BLDG 2
E-F/8

SAMPLE NUMBER: D4

MR

Density Calculation Sheet



CAFCO 400 - 22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	.938	in	
Volume:	67.536	in3	.039 cf

Thickness:

1	1.00	
2	1.00	
3	.875	
4	1.125	
5	.938	
6	.875	
7	1.000	
8	1.125	
9	.875	
10	.875	
11	.938	
12	.938	
13	.875	
14	.875	
15	.750	

Total: (mm) _____
Total: (in) 14.06
Avg.: (in) .938

.750
2.250
3.00
5.25
2.814

Pan #:	2	
Pan Tare:	1.912	lbs
Pan & Wet SFRM:	—	lbs
Pan & Dry SFRM:	2.932	lbs
Dry SFRM:	1.020	lbs
Volume:	.039	cf
Density:	26.2	pcf > 22 PCF

MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

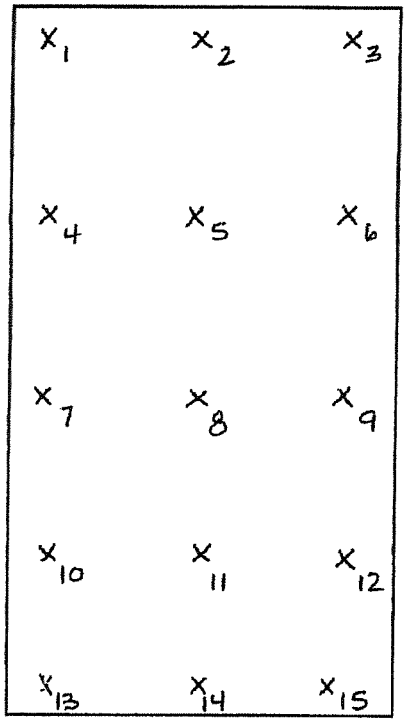
BEAM

BLDG 2
E-F / 80-81

SAMPLE NUMBER: D5

MTG

Density Calculation Sheet



CAFCO 400 - 22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	.875	in	
Volume:	63	in3	.036 cf

Thickness:

1	1.00	
2	1.00	
3	.875	
4	.875	
5	.750	
6	1.00	
7	.750	
8	.938	
9	.875	
10	.875	
11	1.00	
12	1.00	
13	.688	
14	.750	
15	.750	

15/16 = .938
11/16 = .688
9/16 = .563

5.00
2.625
3.00
.875
.938
.688

Pan #:	111	
Pan Tare:	.926	lbs
Pan & Wet SFRM:	1.502	lbs
Pan & Dry SFRM:	—	lbs
Dry SFRM:	.976	lbs
Volume:	.036	cf
Density:	27.1	pcf

>22 PCF
MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

BEAM

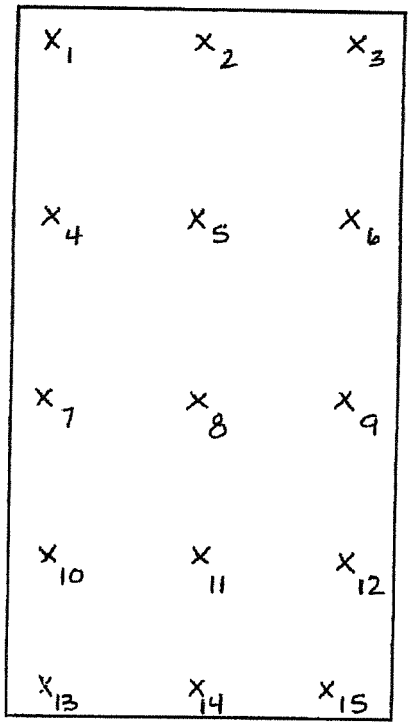
BLDG #2
B-C/87-87.3

Total:	(mm)	
Total:	(in)	13.13
Avg.:	(in)	.875

SAMPLE NUMBER: D6

MTC

Density Calculation Sheet



CAFCO 400 – 22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	.9880	in	
Volume:	71.11	in3	.041 cf

Thickness:

1	.938 –	
2	.938 –	
3	1.00 –	4.69
4	1.00 –	4.00
5	.875 –	
6	1.1125 –	2.625
7	1.125 –	2.250
8	1.250 –	1.250
9	1.00 –	
10	1.00 –	
11	.875 –	
12	.875 –	
13	.938 –	
14	.938 –	
15	.938 –	

Total:	(mm)	
Total:	(in)	14.82
Avg.:	(in)	.988

Pan #:	4	
Pan Tare:	1.978	lbs
Pan & Wet SFRM:	23.077	lbs
Pan & Dry SFRM:	–	lbs
Dry SFRM:	1.099	lbs
Volume:	.041	cf
Density:	26.80	pcf > 22 PCF

MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

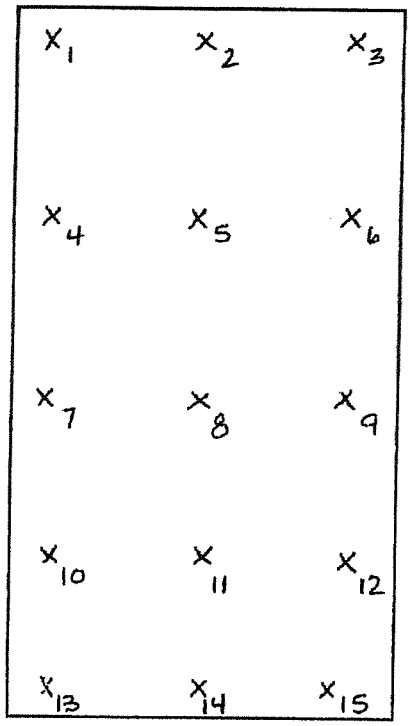
BEAM

BLDG #2
KK/54-55

SAMPLE NUMBER: D7

MTB

Density Calculation Sheet



CAFO 400 - 22 PCF REQ'D

Length = 12 in

Length: 12 in
Width: 6 in
Thickness: .992 in
Volume: 71.42 in3 .041 cf

Thickness:

1	1.00	
2	1.125	4.00
3	1.00	4.50
4	1.250	1.250
5	.875	1.750
6	.750	1.50
7	.750	1.876
8	.875	
9	.938	
10	.938	
11	1.125	
12	1.125	
13	1.00	
14	1.00	
15	1.125	

Total: (mm)
Total: (in) 14.876
Avg.: (in) .992

Pan #: 2
Pan Tare: .753 lbs
Pan & Wet SFRM: 1.846 lbs
Pan & Dry SFRM: — lbs
Dry SFRM: 1.093 lbs
Volume: .041 cf
Density: 26.66 pcf > 22 PCF
MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

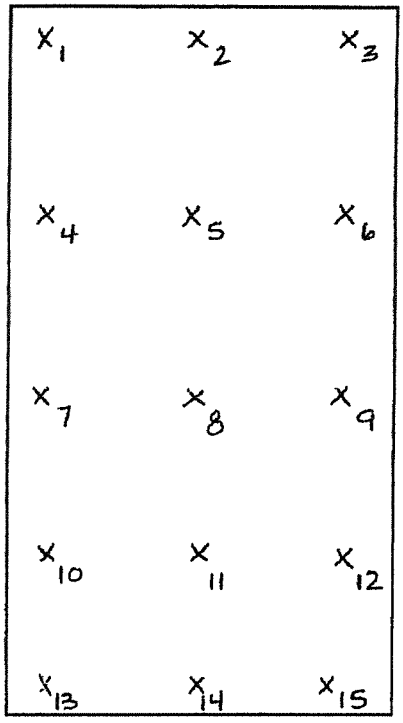
BEAM

BLDG #2
JJ/55-56

SAMPLE NUMBER: D8

MC

Density Calculation Sheet



Width = 6 in

CAFCO 400 - 22 PCF REQ'D

Length = 12 in

Length:	12 in	
Width:	6 in	
Thickness:	.904 in	
Volume:	65.09 in3	.038 cf

Thickness:

1	.938	1.876
2	.938	
3	.750	2.25
4	.875	3.50
5	.875	
6	1.00	3.00
7	1.125	2.250
8	.750	
9	.750	.688
10	.688	
11	1.125	
12	1.00	
13	1.00	
14	.875	
15	.875	

Total:	(mm)	
Total:	(in)	13.564
Avg.:	(in)	.904

Pan #:	2	
Pan Tare:	1.912	lbs
Pan & Wet SFRM:	2.856	lbs
Pan & Dry SFRM:	—	lbs
Dry SFRM:	.944	lbs
Volume:	.038	cf
Density:	24.84	pcf

>22PCF

MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

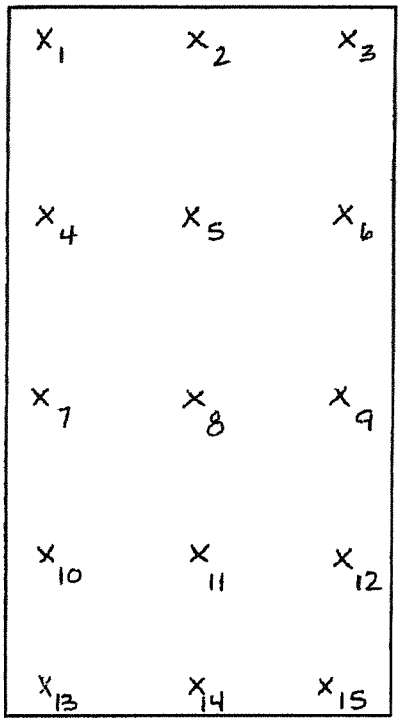
BEAM

BLDG #2
GG - HH / 5A.4

SAMPLE NUMBER: D9

MC

Density Calculation Sheet



Width = 6 in

CAFCO 400 - 22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	.942	in	
Volume:	67.82	in3	.039 cf

Thickness:

1	1.00	5.00
2	.938	3.752
3	.938	3.50
4	.875	1.125
5	.875	.750
6	1.125	
7	1.000	
8	.875	
9	.938	
10	.938	
11	.875	
12	.750	
13	1.00	
14	1.00	
15	1.00	

Total:	(mm)	
Total:	(in)	14.127
Avg.:	(in)	.942

Pan #:	A4	
Pan Tare:	.879	lbs
Pan & Wet SFRM:	1.886	lbs
Pan & Dry SFRM:	—	lbs
Dry SFRM:	1.007	lbs
Volume:	.039	cf
Density:	25.82	pcf > 22 PCF

MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

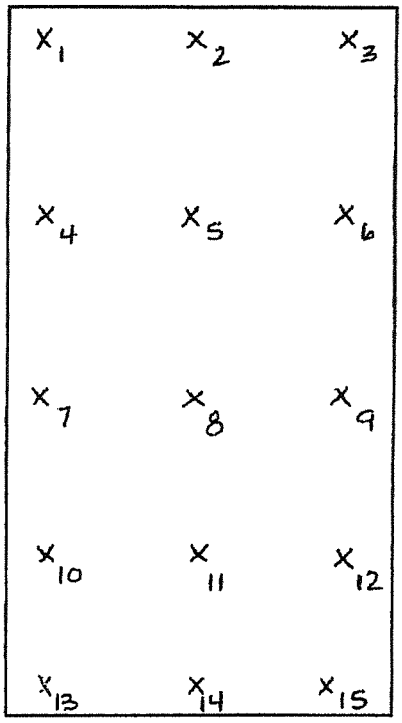
BEAM

BLDG #2
EE-FF/55

SAMPLE NUMBER: 010

MTC

Density Calculation Sheet



Width = 6 in

CAFCO 400 - 22 PCF REQ'D

Length = 12 in

Length:	12 in	
Width:	6 in	
Thickness:	.892 in	
Volume:	64.22 in3	.037 cf

Thickness:

1	1.125	1.125
2	1.00	2.00
3	.875	2.50
4	.875	3.00
5	.750	3.752
6	.750	
7	.938	
8	.938	
9	.938	
10	.938	
11	1.00	
12	.875	
13	.750	
14	.750	
15	.875	

Total:	(mm)	
Total:	(in)	13.377
Avg.:	(in)	.892

Pan #:	2
Pan Tare:	1.912 lbs
Pan & Wet SFRM:	— lbs
Pan & Dry SFRM:	2.899 lbs
Dry SFRM:	1.987 lbs
Volume:	.037 cf
Density:	26.68 pcf > 22 PCF

MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

BEAM

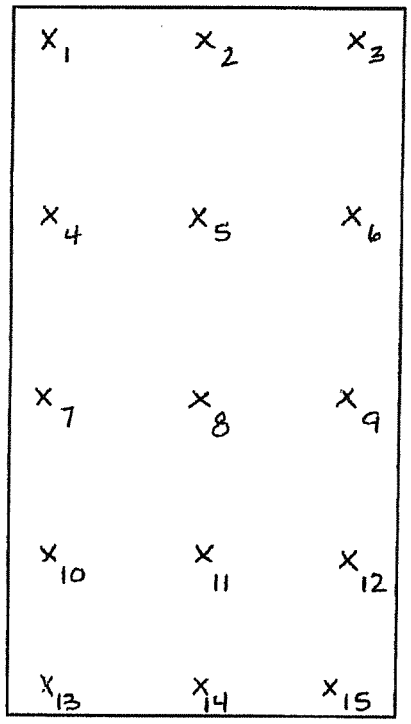
BLDG # 1

K-L/1.8

SAMPLE NUMBER: D11

MR

Density Calculation Sheet



CAFO 400 – 22 PCF REQ'D

Length:	12 in	
Width:	6 in	
Thickness:	~~.946~~ .879 in	~~.037~~ .039 cf
Volume:	~~68.112~~ 63.312 in3	

Thickness:

1	.875	2.625
2	.875	4.06
3	.875	1.125
4	1.00	1.876
5	1.125	1.50
6	1.00	2.064
7	1.00	
8	.938	
9	.938	
10	.750	
11	.688	
12	.688	
13	.688	
14	.750	
15	1.000	

Total:	(mm)	
Total:	(in)	~~14.19~~ 13.19
Avg.:	(in)	~~.946~~ .879

Pan #:	A4
Pan Tare:	.878 lbs
Pan & Wet SFRM:	— lbs
Pan & Dry SFRM:	1.860 lbs
Dry SFRM:	.892 lbs
Volume:	~~.037~~ .039 cf
Density:	~~22.87~~ pcf

26.80 > 22 PCF
MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

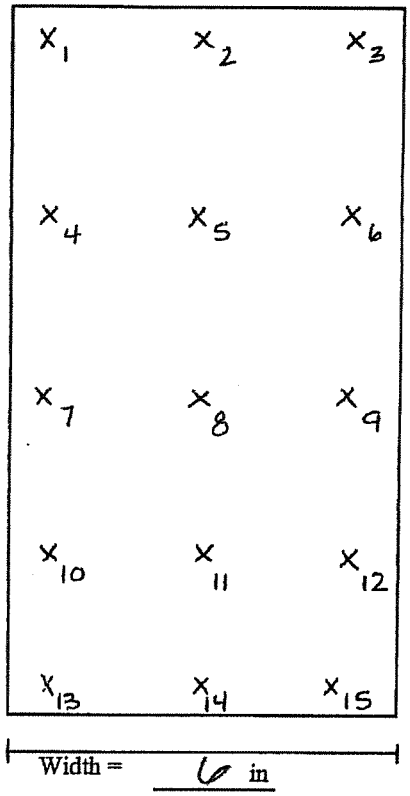
BEAM

BLDG #1
H/1.5

SAMPLE NUMBER: D12

MB

Density Calculation Sheet



CAFCO 400 - 22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	.917	in	
Volume:	66.62	in3	.038 cf

Thickness:

1	1.00	7.00
2	1.00	2.625
3	1.00	2.250
4	1.00	1.876
5	.875	
6	.875	
7	1.00	
8	.750	
9	.750	
10	.750	
11	.938	
12	.938	
13	.875	
14	1.00	
15	1.00	

Total:	(mm)	
Total:	(in)	13.751
Avg.:	(in)	.917

Pan #:	2	
Pan Tare:	.752	lbs
Pan & Wet SFRM:	—	lbs
Pan & Dry SFRM:	1.667	lbs
Dry SFRM:	.915	lbs
Volume:	.038	cf
Density:	24.08	pcf > 22pcf

MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

BEAM

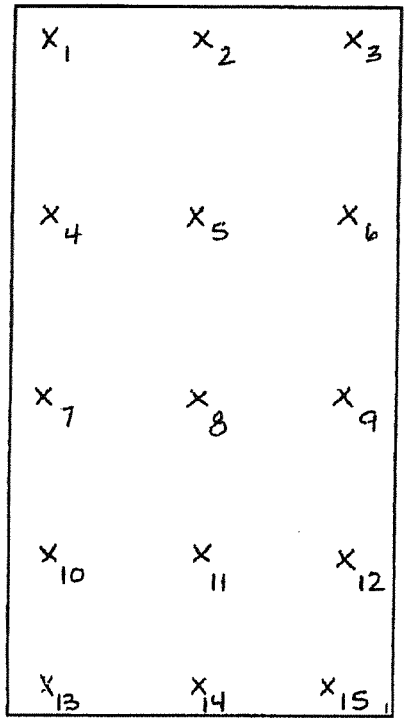
BLDG #1

E-F/3.2

SAMPLE NUMBER: D13

MTG

Density Calculation Sheet



CAFCO 400 - 22 PCF REQ'D

Length:	12	in
Width:	6	in
Thickness:	0854, ~~.771~~	in
Volume:	~~51.91~~ 61.50	in3

.036 ~~.030~~ cf

Thickness:

1	.750	+
2	.750	+
3	.875	+
4	.875	+
5	.750	+
6	1.00	+
7	1.00	+
8	.875	+
9	.875	+
10	.750	+
11	~~.930~~	—
12	.750	+
13	.875	+
14	.875	+
15	.875	+

3.75
6.125
2.00
.938

Total:	(mm)	
Total:	(in)	~~10.813~~ 12.813
Avg.:	(in)	~~.721~~ 0.854

Pan #:	A7	
Pan Tare:	.879	lbs
Pan & Wet SFRM:	—	lbs
Pan & Dry SFRM:	1.750	lbs
Dry SFRM:	.871	lbs
Volume:	.036 ~~.030~~	cf
Density:	~~29.03~~	pcf

24.47 > 22 PCF
MEET SPECIFICATION

1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

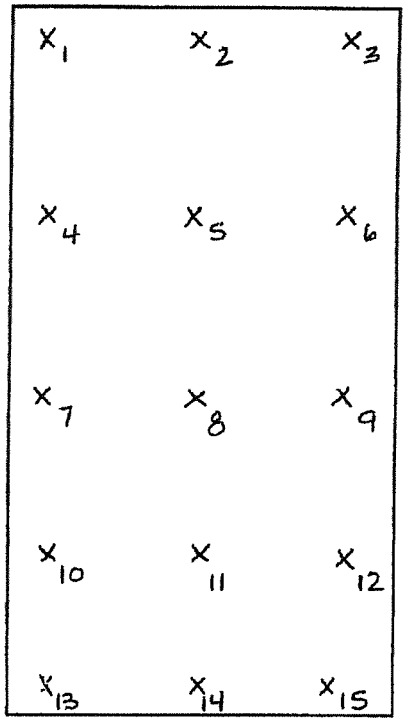
BEAM

BLDG #1
C-D/2.8

SAMPLE NUMBER: D14

MTC

Density Calculation Sheet



CAFCO 400 - 22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	1.01	in	
Volume:	72.72	in3	.042 cf

Thickness:

1	1.125	4.50
2	1.250	1.250
3	1.125	6.000
4	1.000	2.625
5	1.000	.750
6	.875	
7	.875	
8	.875	
9	.750	
10	1.00	
11	1.00	
12	1.00	
13	1.125	
14	1.125	
15	1.00	

Total:	(mm)	
Total:	(in)	15.13
Avg.:	(in)	1.01

Pan #:	111	
Pan Tare:	.877	lbs
Pan & Wet SFRM:	—	lbs
Pan & Dry SFRM:	1.927	lbs
Dry SFRM:	1.05	lbs
Volume:	.042	cf
Density:	25.0	pcf

>22 PCF MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

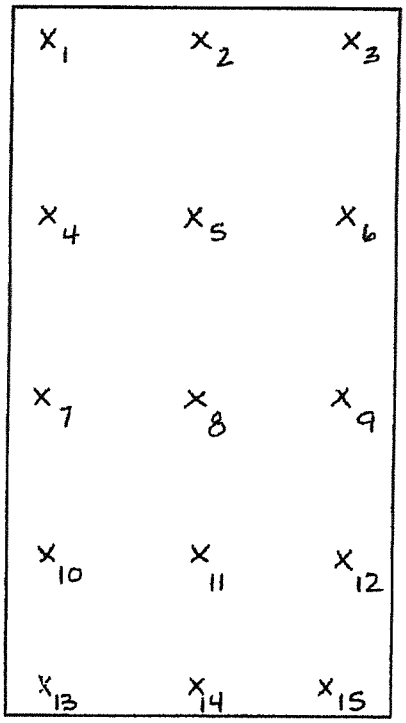
BEAM

BLDG #1
C-D/5.4

SAMPLE NUMBER: D15

MR

Density Calculation Sheet



Width = 16 in

CAFCO 400 - 22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	.1958	in	
Volume:	68.976	in3	.040 cf

Thickness:

1	1.125	3.375
2	1.00	4.00
3	1.00	4.375
4	1.125	.750
5	.875	1.876
6	.875	
7	.875	
8	1.00	
9	1.125	
10	1.00	
11	.875	
12	.875	
13	.750	
14	.998	
15	.998	

Total:	(mm)	
Total:	(in)	14.376
Avg.:	(in)	.1958

Pan #:	89	
Pan Tare:	.874	lbs
Pan & Wet SFRM:	—	lbs
Pan & Dry SFRM:	1.831	lbs
Dry SFRM:	.957	lbs
Volume:	.0640	cf
Density:	23.93	pcf

> 22 PCF MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

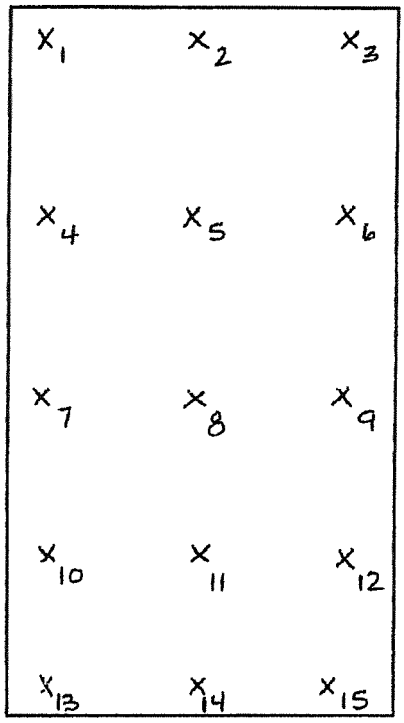
BEAM

BLDG #1
G-H/5.4

SAMPLE NUMBER: D16

MB

Density Calculation Sheet



Width = 6 in

LAFCO 400 - 22 PCF REQ'D

Length = 12 in

Length:	12 in	
Width:	6 in	
Thickness:	.813 in	
Volume:	58.536 in3	.034 cf

Thickness:

1	.688	2.064
2	.688	4.500
3	.688	2.625
4	.750	3.00
5	.750	
6	.750	
7	.875	
8	.750	
9	.750	
10	.750	
11	1.00	
12	1.00	
13	1.00	
14	.875	
15	.875	

Total:	(mm)	
Total:	(in)	12.189
Avg.:	(in)	.813

Pan #:	92
Pan Tare:	.875 lbs
Pan & Wet SFRM:	— lbs
Pan & Dry SFRM:	1.682 lbs
Dry SFRM:	.807 lbs
Volume:	.034 cf
Density:	23.74 pcf >22pcf

MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

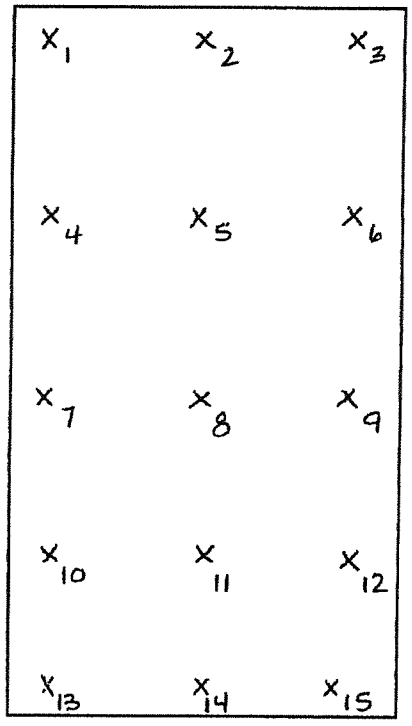
BEAM

BLDG #1
H-J/8.5

SAMPLE NUMBER: D17

MTG

Density Calculation Sheet



CAFO 400-22 PCF REQ'D

Length:	6" in	
Width:	12" in	
Thickness:	.833 in	
Volume:	59.976 in3	.035 cf

59.976 / 1728 = .0347

Thickness:

1	7/8	.875	
2	3/4	.750	
3	1.00	1.00	
4	7/8	.875	
5	3/4	.750	
6	3/4	.750	
7	7/8	.750	5.25
8	3/4	.750	5.25
9	3/4	.750	2.00
10	7/8	.875	
11	7/8	.875	
12	7/8	.875	
13	7/8	.875	
14	1.00	1.00	
15	7/4	.750	

Total:	(mm)	
Total:	(in)	12.50
Avg.:	(in)	.833

Pan #:	111	
Pan Tare:	.525	lbs
Pan & Wet SFRM:	1.577	lbs
Pan & Dry SFRM:	1.501	lbs
Dry SFRM:	.973	lbs
Volume:	.635	cf
Density:	27.8	pcf

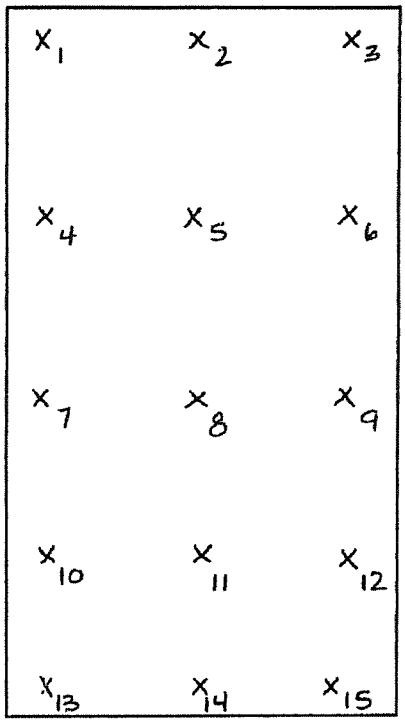
1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

COLUMN

BLDG #2
CA. LINE B/81

SAMPLE NUMBER: 67

Density Calculation Sheet



CAP20 400-22 PCF REQ'D

Length = 12 in

Length:	12"	in	
Width:	6	in	
Thickness:	.917	in	
Volume:	66	in3	.038 cf

66/1728

Thickness:

1	1.00	1.00
2	1.00	1.00
3	1 1/8	1.125
4	7/8	.875
5	3/4	.750
6	3/4	.750
7	1.00	1.000
8	1.00	1.000
9	1.00	1.000
10	7/8	.875
11	7/8	.875
12	7/8	.875
13	7/8	.875
14	7/8	.875
15	7/8	.875

5.000
6.125
1.125
1.500

13.75

Pan #:	114	
Pan Tare:	.522	lbs
Pan & Wet SFRM:	1.621	lbs
Pan & Dry SFRM:	1.514	lbs
Dry SFRM:	.992	lbs
Volume:	.038	cf
Density:	26.11	pcf

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

BLDG #2

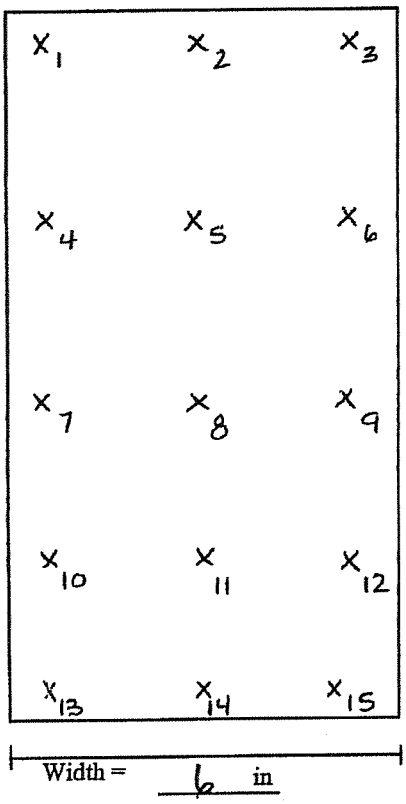
COL LINE 9/K

COLUMN

Total:	(mm)	
Total:	(in)	13.75
Avg.:	(in)	.917

SAMPLE NUMBER: C2

Density Calculation Sheet



CAFCO 400 - 22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	1.083	in	
Volume:	77.98	in3	.045 cf

Thickness:

1	1 1/16	1.063
2	1 1/16	1.063
3	1.00	1.000
4	1 1/16	1.063
5	1.00	1.000
6	1 1/16	1.063
7	1 1/8	1.125+
8	1 1/4	1.250-
9	1 1/4	1.250-
10	1 1/8	1.125+
11	1 1/8	1.125+
12	1.00	1.000
13	1.00	1.000
14	1 1/8	1.000
15	1 1/8	1.125+

Pan #:	4	
Pan Tare:	1.977	lbs
Pan & Wet SFRM:	3.614	lbs
Pan & Dry SFRM:	3.035	lbs
Dry SFRM:	1.038	lbs
Volume:	.045	cf
Density:	23.07	pcf

2.500
4.252
5.000
4.500

1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

16.252

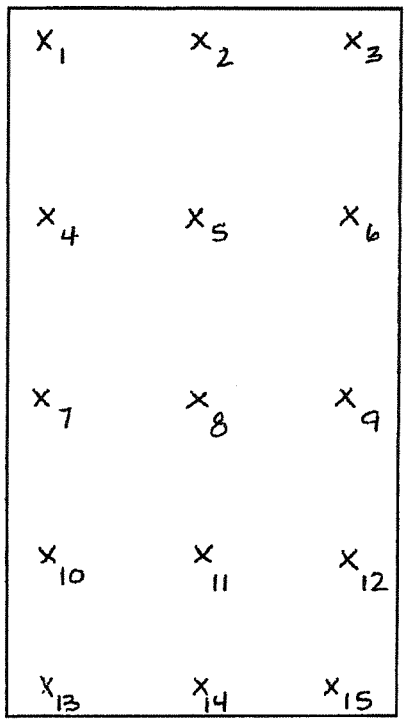
COLUMN

COL LINE: JJ/86

Total:	(mm)	
Total:	(in)	16.252
Avg.:	(in)	1.083

SAMPLE NUMBER: C3

Density Calculation Sheet



CAFLO 400 - 22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	.917	in	
Volume:	66	in3	.038 cf

Thickness:

1	7/8	.875
2	1.00	1.00
3	1.00	1.000
4	7/8	.875
5	7/8	.875
6	7/8	.875
7	7/8	.875
8	7/8	.875
9	1.00	1.000
10	1.00	1.000
11	1.00	1.000
12	7/8	.875
13	7/8	.875
14	7/8	.875
15	7/8	.875

Total:	(mm)	
Total:	(in)	13.75
Avg.:	(in)	.917

Pan #:	2	
Pan Tare:	.751	lbs
Pan & Wet SFRM:	2.265	lbs
Pan & Dry SFRM:	1.684	lbs
Dry SFRM:	.933	lbs
Volume:	.1038	cf
Density:	24.55	pcf

8.75
5.00
13.75

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

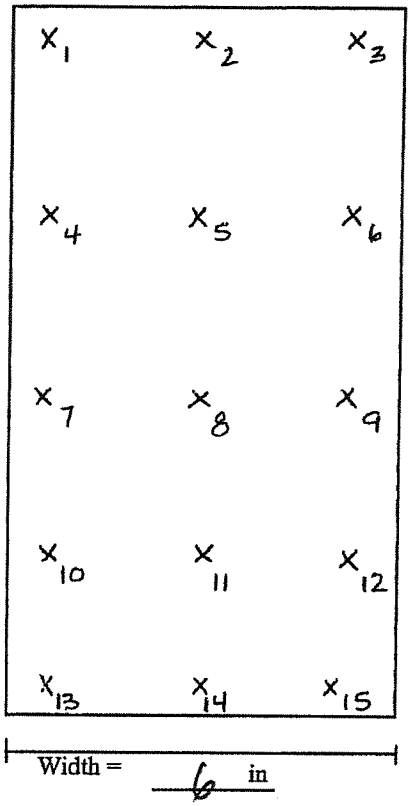
COLUMN

BLOG #2

COL LINE GG/82

SAMPLE NUMBER: C4

Density Calculation Sheet



CAFCO 400-22 PCF REQ'D

Length:	12	in	
Width:	6	in	
Thickness:	0.85	in	
Volume:	61.20	in3	.035 cf

Thickness:

1	3/4	.750
2	7/8	.875
3	1.00	1.00
4	3/4	.750
5	7/8	.875
6	1.00	1.00
7	3/4	.750
8	3/4	.750
9	7/8	.875
10	3/4	.750
11	3/4	.750
12	3/4	.750
13	7/8	.875
14	1.00	1.00
15	1.00	1.00

Total:	(mm)	
Total:	(in)	12.75
Avg.:	(in)	.85

Pan #:	A4	
Pan Tare:	.874	lbs
Pan & Wet SFRM:	2.298	lbs
Pan & Dry SFRM:	1.619	lbs
Dry SFRM:	.679	lbs
Volume:	.035	cf
Density:	19.4	pcf

5.25
3.500
4.000

1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

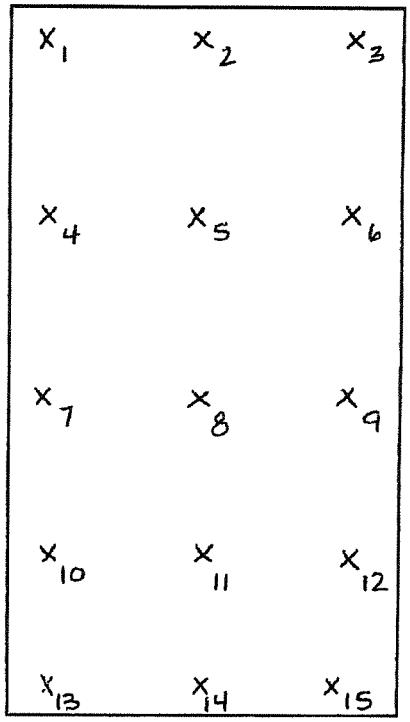
COLUMN

BLOG #2

COL LINE F/9

SAMPLE NUMBER: C5

Density Calculation Sheet



400
CAFCO-22 PCF REQ'D

Length:	12	in
Width:	6	in
Thickness:	1.242	in
Volume:	89.424 in3	.052 cf

Thickness:

1	1 1/2	1.500
2	1 1/2	1.500
3	1 1/8	1.125
4	1 1/2	1.500
5	1 1/2	1.500
6	1 1/8	1.125
7	1 1/8	1.125
8	1 1/8	1.125
9	1.00	1.000
10	1 1/8	1.1125
11	1 1/2	1.500
12	1 1/8	1.125
13	1 1/8	1.125
14	1 1/8	1.125
15	1 1/8	1.125

7.500
10.125
1.006

Pan #:	A1	
Pan Tare:	.875	lbs
Pan & Wet SFRM:	3.152	lbs
Pan & Dry SFRM:	2.062	lbs
Dry SFRM:	1.187	lbs
Volume:	.1052	cf
Density:	22.83	pcf

1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

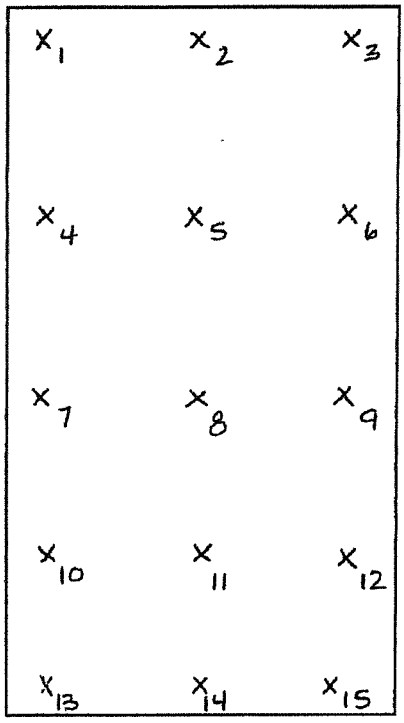
Total:	(mm)	
Total:	(in)	18.625
Avg.:	(in)	1.242

COLUMN

BLDG # 1
COLLINE K/6

SAMPLE NUMBER: C6

Density Calculation Sheet



CAFCO 400 - 22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	.842	in	
Volume:	60.624	in3	.035 cf

Thickness:

1	3/4	.750
2	3/4	.750
3	1.00	1.000
4	3/4	.750
5	7/8	.875
6	1.00	1.000
7	3/4	.750
8	3/4	.750
9	3/4	.750
10	7/8	.875
11	7/8	.875
12	7/8	.875
13	7/8	.875
14	7/8	.875
15	7/8	.875

Pan #:	2	
Pan Tare:	1.912	lbs
Pan & Wet SFRM:	3.620	lbs
Pan & Dry SFRM:	2.784	lbs
Dry SFRM:	.872	lbs
Volume:	.035	cf
Density:	24.91	pcf

4.50
2.000
6.125

1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

12.625

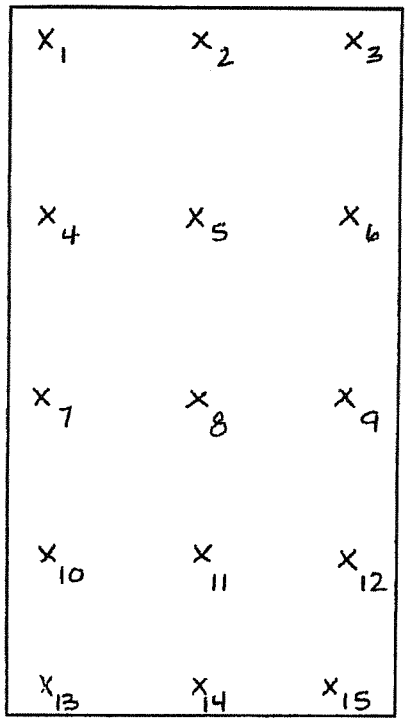
Total:	(mm)	
Total:	(in)	12.625
Avg.:	(in)	.842

COLUMN

BLDG # 1
COL LINE H/4

SAMPLE NUMBER: C7

Density Calculation Sheet



CAP 400 - 22 PCF REQ'D

Length:	12	in	
Width:	6	in	
Thickness:	.7813	in	
Volume:	56.4	in3	.033 cf

Thickness:

1	3/4	.750
2	1.00	1.00
3	3/4	.750
4	7/8	.875
5	1.00	1.000
6	1 1/8	1.125
7	1.00	1.000
8	1.00	1.000
9	3/4	.750
10	3/4	.750
11	3/4	.750
12	3/4	.750
13	3/4	.750
14	7/8	.875
15	3/4	.750

Total:	(mm)	
Total:	(in)	11.75
Avg.:	(in)	.783

Pan #:	111	
Pan Tare:	.525	lbs
Pan & Wet SFRM:	1.456	lbs
Pan & Dry SFRM:	1.159	lbs
Dry SFRM:	.634	lbs
Volume:	.033	cf
Density:	19.20	pcf

6.000
4.000
1.750

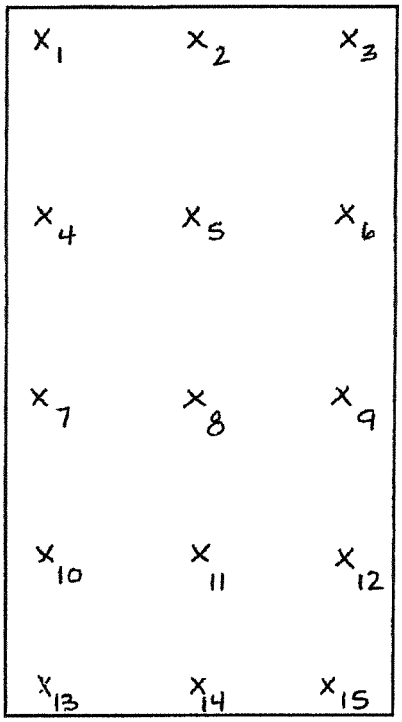
1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

COLUMN

BLDG #7
COL LINE: F/4

SAMPLE NUMBER: C8

Density Calculation Sheet



CAFCO 400-22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	.85	in	
Volume:	61.20	in3	.035 cf

Thickness:

1	.750
2	.750
3	.875
4	1.00
5	1.00
6	.875
7	.875
8	.750
9	1.00
10	1.125
11	.750
12	.750
13	.750
14	.750
15	.750

Total:	(mm)	
Total:	(in)	12.75
Avg.:	(in)	.85

Pan #:	4	
Pan Tare:	1.978	lbs
Pan & Wet SFRM:	3.276	lbs
Pan & Dry SFRM:	2.776	lbs
Dry SFRM:	.798	lbs
Volume:	.1035	cf
Density:	22.79	pcf

6.00
2.625
3.000
1.125

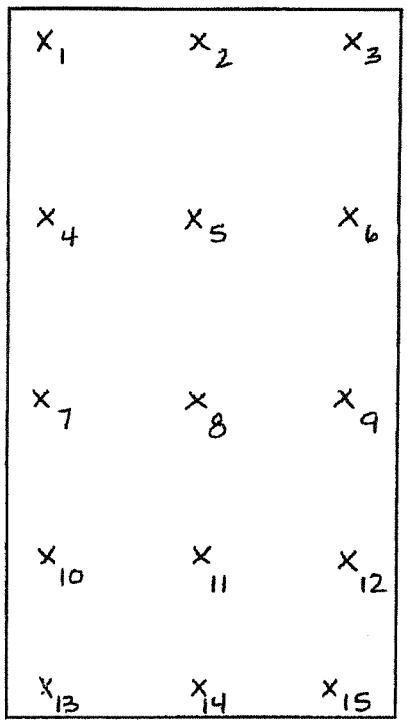
1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

COLUMN

BLOCK #1
COL: D/2

SAMPLE NUMBER: C9

Density Calculation Sheet



CAP 400 - 22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	.808	in	
Volume:	58.21	in3	.034 cf

Thickness:

1	1.00	-
2	1.60	-
3	.563	-
4	.563	-
5	.750	+
6	.750	+
7	.875	-
8	.875	-
9	1.000	-
10	1.125	-
11	.875	-
12	.875	-
13	.563	-
14	.563	-
15	.750	+

Total:	(mm)	
Total:	(in)	12.13
Avg.:	(in)	.808

Pan #:	2
Pan Tare:	.753 lbs
Pan & Wet SFRM:	1.988 lbs
Pan & Dry SFRM:	1.498 lbs
Dry SFRM:	.745 lbs
Volume:	.034 cf
Density:	21.97 pcf

2,250
4.125
2,252
3,500

1 sq. foot = 1728 sq. inchs

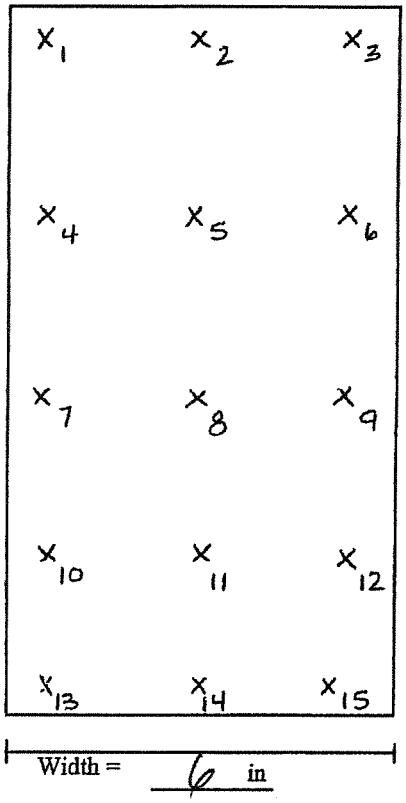
1 lbs = 453.59 grams

COLUMN

BLDG #1
COL: D/4

SAMPLE NUMBER: C10

Density Calculation Sheet



CAFCO 4CO - 22 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	.825	in	
Volume:	59.41	in3	.034 cf

Thickness:

1	.750	
2	.875	
3	.813	
4	.813	
5	.750	5.25
6	.750	1.75
7	.875	3.252
8	1.000	2.125
9	1.125	
10	.813	
11	.813	
12	.750	
13	.750	
14	.750	
15	.750	

Total:	(mm)	
Total:	(in)	12.37
Avg.:	(in)	.825

Pan #:	2	
Pan Tare:	.752	lbs
Pan & Wet SFRM:	1.849	lbs
Pan & Dry SFRM:	1.459	lbs
Dry SFRM:	.707	lbs
Volume:	.034	cf
Density:	20.79	pcf

1 sq. foot = 1728 sq. inchs

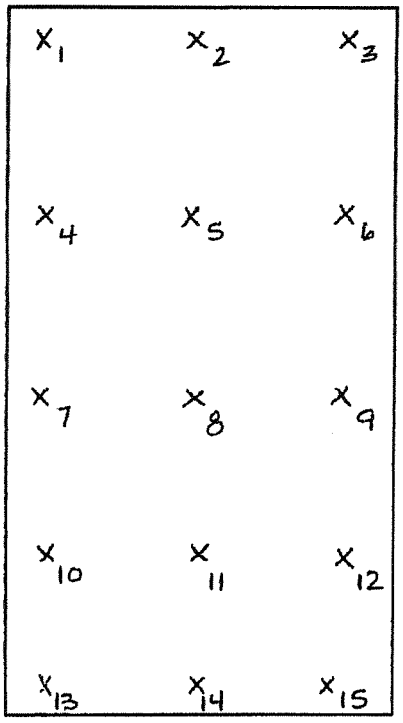
1 lbs = 453.59 grams

COLUMN

BLOG #1
COL: D/6

SAMPLE NUMBER: C11

Density Calculation Sheet



CAFCO-300-15 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	1.792	in	
Volume:	129	in3	.075 cf

Thickness:

MEASUREMENTS IN 16th OF INCH

1	30
2	31
3	30
4	29
5	29
6	26
7	27
8	26
9	31
10	29
11	28
12	27
13	25
14	29
15	29

Total:	(mm)	
Total:	(in)	430/15
Avg.:	(in)	28.67/16

Pan #:	4	
Pan Tare:	1.978	lbs
Pan & Wet SFRM:		lbs
Pan & Dry SFRM:	3.418	lbs
Dry SFRM:	1.440	lbs
Volume:	.075	cf
Density:	19.2	pcf > 15pcf

MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

BLDG 1 B/5

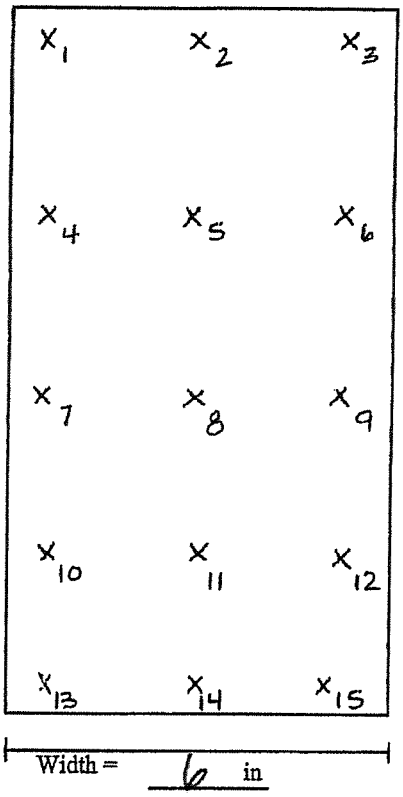
COLUMN

RETAIL 1

SAMPLE NUMBER: C12

MTC

Density Calculation Sheet



CAFCO 300 - 15 PCF REQ'D

Length:	12 in	
Width:	6 in	
Thickness:	1.692 in	.0705
Volume:	~~141.228~~ 121.8 in3	~~.0818~~ cf

Thickness:

* MEASUREMENTS IN 16TH OF INCH

	*
1	29
2	27
3	26
4	30
5	30
6	28
7	28
8	29
9	27
10	27
11	26
12	~~26~~
13	27
14	24
15	23

Total: (mm)

Total: (in) 406/15

Avg.: (in) 27.067/16

Pan #:	A4
Pan Tare:	.877 lbs
Pan & Wet SFRM:	— lbs
Pan & Dry SFRM:	2.341 lbs
Dry SFRM:	1.464 lbs
Volume:	.0705 ~~.0818~~ cf
Density:	~~17.9~~ pcf

20.8 PCF > 15 PCF

MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

BLDG 1 B/3

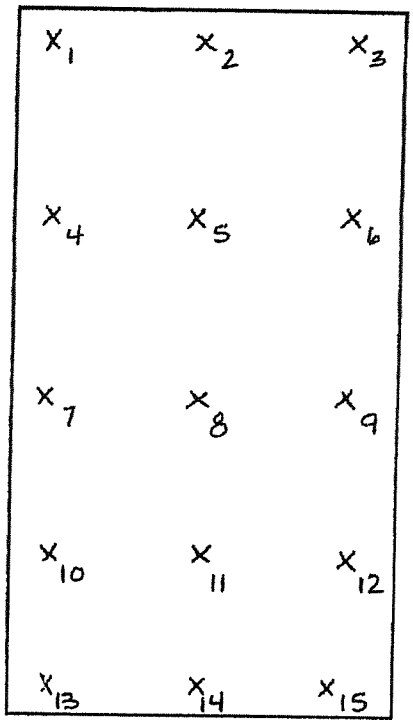
COLUMN

RETAIL 1

SAMPLE NUMBER: C13

MTC

Density Calculation Sheet



CAFCO 300 - 15 PCF REQ'D

Length = 12 in

Length:	12	in
Width:	6	in
Thickness:	1.683	in
Volume:	121.176 in3	.070 cf

Thickness: *

* MEASUREMENTS IN 16th of INCH

1	24
2	26
3	27
4	28
5	29
6	30
7	25
8	24
9	24
10	27
11	28
12	29
13	27
14	27
15	27

Total:	(mm)	
Total:	(in)	404/15
Avg.:	(in)	26.933/16

Pan #:	2
Pan Tare:	1.914 lbs
Pan & Wet SFRM:	— lbs
Pan & Dry SFRM:	3.202 lbs
Dry SFRM:	1.288 lbs
Volume:	.076 cf
Density:	18A pcf > 15

MEETS SPECIFICATIONS

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

BLDG 2 BB/55

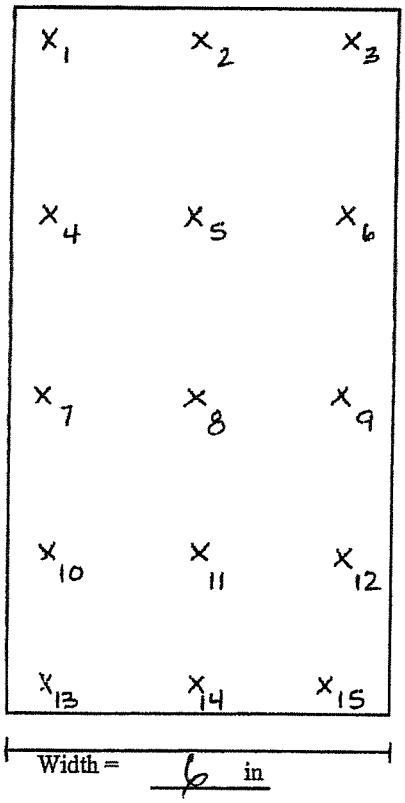
COLUMN

RETAIL 2

SAMPLE NUMBER: C14

MB

Density Calculation Sheet



CAFCO 300 – 15 PCF REQ'D

Length = 12 in

Length:	12	in	
Width:	6	in	
Thickness:	1.617	in	
Volume:	116.424	in3	.067 cf

Thickness: *

* MEASUREMENTS IN 16th of INCH

1	25
2	27
3	26
4	25
5	27
6	28
7	27
8	29
9	27
10	25
11	25
12	22
13	24
14	25
15	25

Total: (mm) ~~388~~/15

Total: (in) ~~388~~/15

Avg.: (in) 25.867/16

Pan #:	2	
Pan Tare:	.754	lbs
Pan & Wet SFRM:	–	lbs
Pan & Dry SFRM:	1.839	lbs
Dry SFRM:	1.085	lbs
Volume:	.067	cf
Density:	16.2	pcf

>15 PCF MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

BLDG 2 BB/33

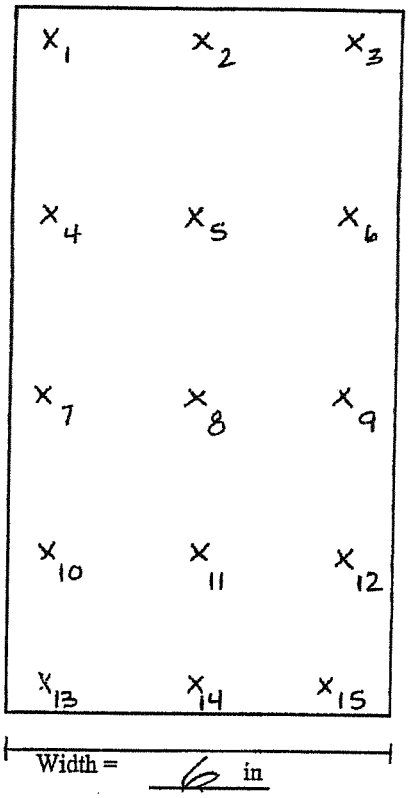
COLUMN

DETAIL 2

SAMPLE NUMBER: C15

MTG

Density Calculation Sheet



CAFCO 300 - 15 pcf REQ'D

Length:	6	in
Width:	6	in
Thickness:	.944	in
Volume:	~~33.984~~ .0197 ~~.039~~	in3 cf

~~864~~ 1728

Thickness: *

*MEASUREMENTS IN 16th of INCH

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

Total:	(mm)	
Total:	(in)	196
Avg.:	(in)	15.11/16 = .944

Pan #:	111	
Pan Tare:	.527	lbs
Pan & Wet SFRM:	—	lbs
Pan & Dry SFRM:	1.233	lbs
Dry SFRM:	.706	lbs
Volume:	.0197 ~~.039~~	cf
Density:	18.1	pcf

35.9 > 15 pcf

MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs

1 lbs = 453.59 grams

BLDG 1 =

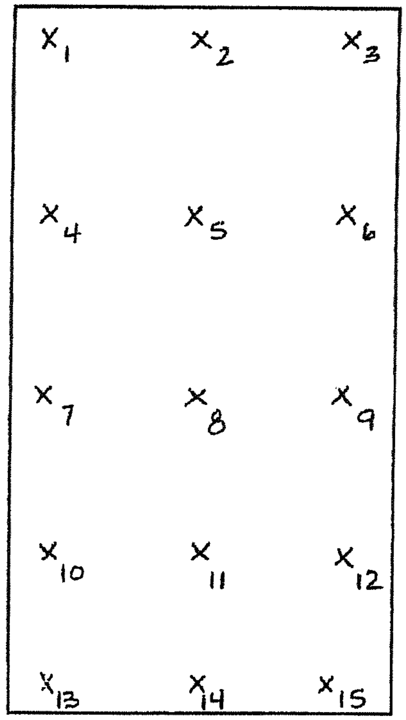
A-B / 4.0

DECK

SAMPLE NUMBER: DA1

MG

Density Calculation Sheet



Width = 6 in

CAFCO 300 - 15 PCF REQ'D

Length = 6 in

Length:	6	in
Width:	6	in
Thickness:	.910	in
Volume:	32.76	in3

~~.038~~ .0189 cf

~~864~~ 1728

Thickness:

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

Total: (mm)		
Total: (in)	131	
Avg.: (in)	14.56	/16 = .091

Pan #:	2	
Pan Tare:	.754	lbs
Pan & Wet SFRM:	—	lbs
Pan & Dry SFRM:	1.423	lbs
Dry SFRM:	.669	lbs
Volume:	.0189 ~~.038~~	cf
Density:	~~17.6~~ 35.3	pcf

35.3 > 15 PCF
MEETS SPECIFICATION

1 sq. foot = 1728 sq. inchs
1 lbs = 453.59 grams

BLDG 1
A-B/5.8
DECK

SAMPLE NUMBER: DA2

MRL

APPENDIX F

WOOD CONSTRUCTION

Summary Report of Special Inspections
The Bay House
Portland, Maine

R. W. GILLESPIE & ASSOCIATES, INC.
Geotechnical Engineering * Geohydrology * Materials Testing Services

200 International Dr., Ste. 170
Portsmouth, NH 03801
603-427-0244 C Fax 603-430-2041

Corporate Office
86 Industrial Park Rd, Ste. 4
Saco, ME 04072
207-286-8008 C Fax 207-286-2882

WOOD CONSTRUCTION OBSERVATION REPORT

Project Name: THE BAY HOUSE Date: 4-15-13

Client/Project #: 1403-001 Time: 3.0

General Contractor: METRIC CONSTRUCTION Weather: CLEAR

Approved Documents Referenced: THE BAY HOUSE 9-5-12

Document Sheets/Details Referenced: BUILDING 2 S1.3, S1.4 DETAILS 7, 9-16

Location of Observations: BUILDING 2, 2ND FLOOR FRAMING PLAN

ITEMS CHECKED

Item	In Accordance With Documents	Not In Accordance With Documents	Not Applicable
Species & Grade of Lumber Used	☑	☐	☐
Wood Frame Connections	☑	☐	☐
Frame Configuration	☑	☐	☐
Temporary & Permanent Bracing	☑	☐	☐
Fastening of Lateral Load Resistant Elements (Shear Walls & Diaphrams)	☑	☐	☐

Other: _____

Observations were verbally reported to:

BOB LACHAPELLE, METRIC

Construction Technologist:

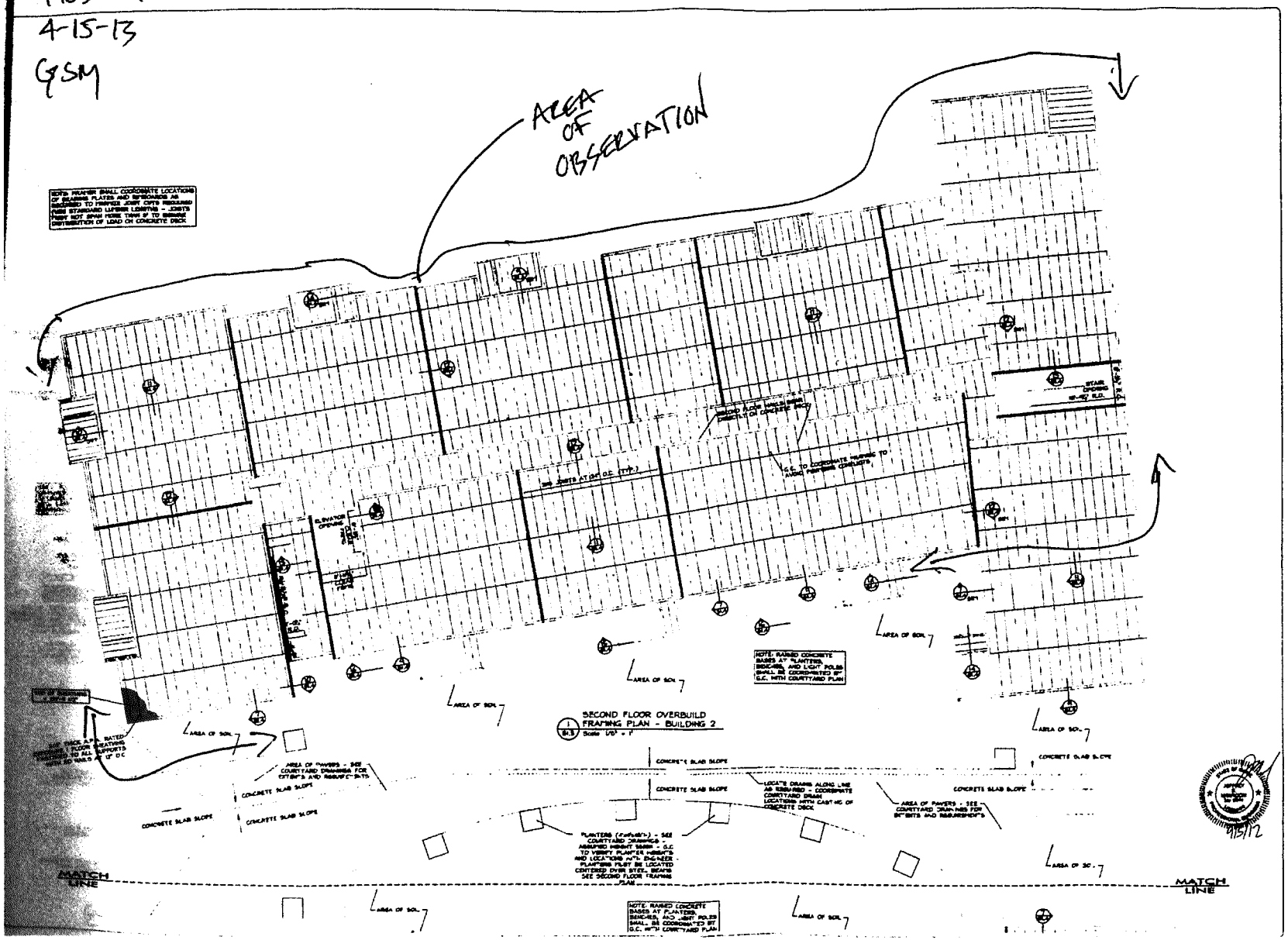
George S Morrell

Print Name/Title

George S Morrell
CWI 04050311
QC1 EXP. 5/1/2013

MRG

THE BAY HOUSE
1403-001
4-15-13
GSM



JSN Associates, Inc.

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THE VILLAGE AT OCEAN GATE, LLC
c/o Atlas Investments Group
35 Fay Street Suite 5-2
Boston, MA 02118

THE BAY HOUSE
Middle Street
Portland, Maine

SECOND FLOOR FRAMING
Building 2
Scale: 1/8" = 1'-0"
Commission No: 1403
Date: September 5, 2012

REVISIONS:

DRG. NO.
S1.3

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207-286-8008 C Fax 207-286-2882

WOOD CONSTRUCTION OBSERVATION REPORT

Project Name: THE BAY HOUSE Date: 5-15-13

Client/Project #: 1403-001 Time: 2.5

General Contractor: METRIC CONSTRUCTION Weather: SUN

Approved Documents Referenced: THE BAY HOUSE 9-5-12

Document Sheets/Details Referenced: S1.2 - S1.4, S2.1 - S2.3

Location of Observations: BUILDING 2, 1ST & 2ND FLOOR

ITEMS CHECKED

Item	In Accordance With Documents	Not In Accordance With Documents	Not Applicable
Species & Grade of Lumber Used	☑	☐	☐
Wood Frame Connections	☐	* ☑	☐
Frame Configuration	☑	☐	☐
Temporary & Permanent Bracing	☑	☐	☐
Fastening of Lateral Load Resistant Elements (Shear Walls & Diaphrams)	☐	☐	☐

Other: * BLOCKING NOT INSTALLED ON BOTTOM OF WALL ENDS. (DETAIL 12 ON SHEET S1.4)

Observations were verbally reported to:
BOB LACHAPELLE

Construction Technologist:
George S Morrell

Print Name/Title
GEORGE S MORRELL

MTG

A Part of Description

THE BAY House
1403-001
5-15-03
Gpsw

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WOOD CONSTRUCTION OBSERVATION REPORT

Project Name: THE BAY HOUSE Date: 6-3-13

Client/Project #: 1403-001 Time:

General Contractor: METRIC CONSTRUCTION. Weather: SUN

Approved Documents Referenced: THE BAY HOUSE 9-5-12

Document Sheets/Details Referenced: S1.2, S1.4, S2.2, S2.3

Location of Observations: BUILDING 1, FIRST FLOOR

ITEMS CHECKED

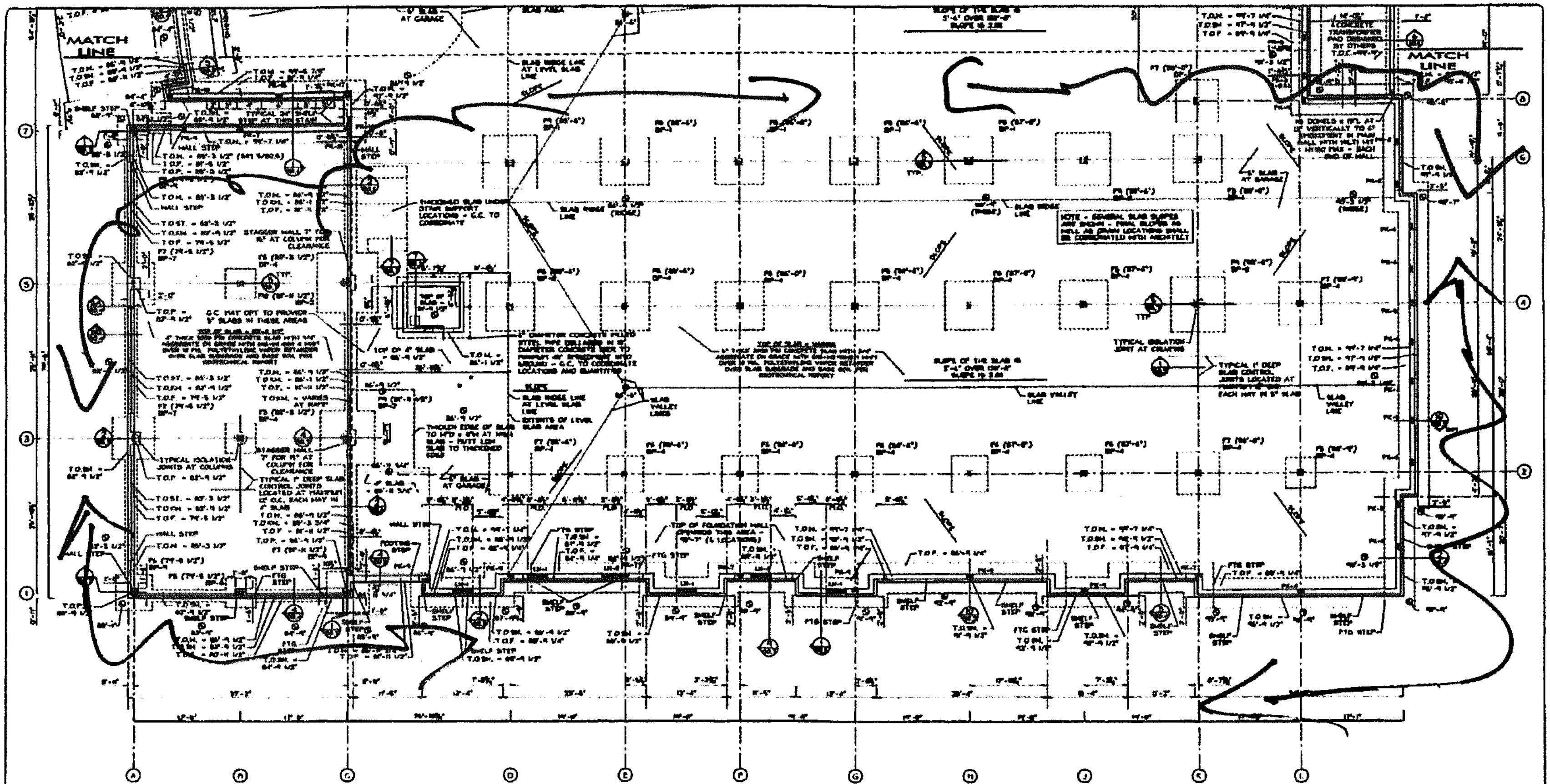
Item	In Accordance With Documents	Not In Accordance With Documents	Not Applicable
Species & Grade of Lumber Used	☑	☐	☐
Wood Frame Connections	☑	☐	☐
Frame Configuration	☑	☐	☐
Temporary & Permanent Bracing	☐	☑ *	☐
Fastening of Lateral Load Resistant Elements (Shear Walls & Diaphrams)	☐	☐	☑

Other: * BLOCKING NOT INSTALLED. BLOCKING & OTHER BRACING WOULD BE INSTALLED WHEN MAJOR FRAMING WAS COMPLETE.

Observations were verbally reported to:
BOB LACHAPELLE

Construction Technologist:
George S Morrell

Print Name/Title
GEORGE S MORRELL



FOOTING SCHEDULE			
FTG	SIZE	CAPACITY	REINFORCING
F3	3'x3'x12"	37 K	(3) #5 BARS
F4	4'x4'x14"	48 K	(4) #5 BARS
F5	5'x5'x16"	75 K	(5) #6 BARS
F6	6'x6'x18"	108 K	(6) #6 BARS
F7	7'x7'x20"	147 K	(7) #6 BARS
F8	8'x8'x22"	192 K	(8) #7 BARS
F9	9'x9'x24"	243 K	(9) #7 BARS
F10	10'x10'x26"	300 K	(10) #8 BARS

PROVIDE NUMBER OF BARS IN EACH DIRECTION, SPACED EVENLY, TIED IN MAT, AT 3" CLEAR FROM BOTTOM OF FOOTING (U.N.O.) - TOP STEEL SHALL BE 2" CLEAR FROM TOP OF FOOTING WHERE REQUIRED - FOOTING SIZES ARE BASED ON A 3000 PSF BEARING PRESSURE

NOTES:

1. G.C. SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS. G.C. MAY CONTACT ENGINEER IF DIMENSIONAL CLARIFICATION IS NEEDED DUE TO SCALE OF DRAWINGS.
2. UNDER SLAB AND THROUGH WALL UTILITIES TO BE COORDINATED BY CONTRACTOR. SEE 5/S0.2 FOR REINFORCING AT WALL OPENINGS
3. BACKFILL ALL WALLS SIMULTANEOUSLY, BOTH SIDES, TO MAXIMUM HEIGHT POSSIBLE
4. REFER TO GEOTECHNICAL REPORT FOR ALL INFORMATION REGARDING EXCAVATION, BACKFILL, SUBGRADE PREPARATION, STRUCTURAL FILL, DRAINAGE, ETC. NOTE THAT A MINIMUM OF 6" OF 3/4" CRUSHED STONE UNDERLAIN BY NON-WOVEN GEOTEXTILE FABRIC IS REQUIRED PER GEOTECHNICAL REPORT
5. BUILDING BEARS DIRECTLY ON FOUNDATIONS. PROVIDE A SMOOTH AND LEVEL SURFACE AT ALL BEARING LOCATIONS.
6. MAINTAIN MINIMUM 4'-6" FROST COVER FROM GRADE TO BOTTOM OF FOOTING AT ALL EXTERIOR FOOTING LOCATIONS. SEE GEOTECHNICAL REPORT.
7. G.C. SHALL COORDINATE ALL FINAL SLAB SLOPE AND INTERIOR FLOOR DRAIN REQUIREMENTS WITH ARCHITECT.
9. GRADE ELEVATIONS ARE BASED ON ARCHITECTURAL ELEVATION OF 100'-0" AT CIVIL DATUM OF 45.20'±.

FOUNDATION PLAN - BUILDING 1
1/S0.0 Scale: 1/8" = 1'

LEGEND:

T.O.S. - TOP OF SLAB ELEVATION
T.O.W. - TOP OF WALL ELEVATION
T.O.ST. - TOP OF WALL STEP
T.O.SH. - TOP OF SHELF ELEVATION
T.O.CH. - TOP OF CHASE WAY
T.O.F. - TOP OF FOOTING ELEVATION
BP-# - BASE PLATE DESIGNATION (T.O.D.)
LL-# - LINTEL DESIGNATION
SP-# - SPREADER PLATE DESIGNATION
F# (X) - FOOTING DESIGNATION AND TOP OF FOOTING ELEVATION
G - TOP OF GRADE/SLAB ELEVATION

BEAM POCKET SCHEDULE					
POCKET	BEAM	DEPTH/WIDTH	T.O. POCKET	T.O. BEAM	WIDTH
PK-1	[illegible]	7-7/8 / 4	[illegible]	[illegible]	[illegible]
PK-2	[illegible]	9-7/8 / 4	[illegible]	[illegible]	[illegible]
PK-3	[illegible]	11-7/8 / 4	[illegible]	[illegible]	[illegible]
PK-4	[illegible]	11-1/4 / 4	[illegible]	[illegible]	[illegible]
PK-5	[illegible]	13-3/4 /			
PK-6	[illegible]	15-3/4 /			
PK-7	[illegible]	15-7/8 /			
PK-8	[illegible]	15-7/8 /			
PK-9	[illegible]	17-3/4 /			
PK-10	[illegible]	[illegible]			
PK-11	[illegible]	20-5/8			
PK-12	[illegible]	23-3/4			
PK-13	[illegible]	[illegible]			
PK-14	[illegible]	15-3/4 /			
PK-15	[illegible]	20-5/8			
PK-16	[illegible]	20-5/8			
PK-17	[illegible]	23-5/8			

ALL POCKETS SHALL HAVE A ... POCKET WIDTH. SEE DETAIL ... NOTE: ADJUST BEAM POCKET ... CHANGES - NOTE CHANGE IN ...

NOTE: FOOTING DIMENSIONS MAY CHANGE TO ACCOMMODATE THE GEOMETRY REQUIREMENTS OF THE RAMMED AGGREGATE PIERS AT APPLICABLE LOCATIONS. THIS SHALL BE DETERMINED BY PIER DESIGNER AND LATER MODIFIED BY JSN IF REQUIRED.

NOTE: SEE 2/S0.2 FOR WALL CONSTRUCTION JOINT DETAIL. SEE 3/S0.2 FOR WALL CONTROL JOINT DETAIL. SEE 4/S0.2 FOR CORNER REINFORCING DETAIL. SEE 6/S0.2 FOR TYPICAL FOOTING STEP.

Project: The Bay House
Project No.: 1403-001
Date: 6-3-13
Technologist: GSM

9/5/12

JSN Associates, Inc.

DAVID M. WHITE, ARCHITECT
403 Tibbetts Hill Road
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Goffstown, New Hampshire 03045
(603) 497-3405

THE VILLAGE AT OCEAN GATE, LLC
c/o Allen Investments Group
35 Fay Street Suite 5-2
Boston, MA 02118

THE BAY HOUSE
Middle Street
Portland, Maine

FOUNDATION PLAN
Building 1
Scale 1/8" = 1'0"
Commission No. 1-08
Date September 5, 2012

REVISIONS:

DWG. NO.
S0.0

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207-286-8008 C Fax 207-286-2882

WOOD CONSTRUCTION OBSERVATION REPORT

Project Name: THE BAY HOUSE Date: 6-19-13

Client/Project #: 1403-001 Time: —

General Contractor: METRIC Weather: RAIN

Approved Documents Referenced: THE BAY HOUSE 9-5-2012

Document Sheets/Details Referenced: BUILDING 2 SHEET 2.1, 2.2, 2.3

Location of Observations: BUILDING 2 2ND THROUGH 4th FLOOR EXCEPT FOR ROOF

ITEMS CHECKED

Item	In Accordance With Documents	Not In Accordance With Documents	Not Applicable
Species & Grade of Lumber Used	☑	☐	☐
Wood Frame Connections	☑	☐	☐
Frame Configuration	☑	☐	☐
Temporary & Permanent Bracing	☑	☐	☐
Fastening of Lateral Load Resistant Elements (Shear Walls & Diaphrams)	☑	☐	☐

Other: _____

Observations were verbally reported to:
BOB LACHAPELLE, METRIC CONST.

Construction Technologist:
George S Morrell

Print Name/Title
GEORGE S MORRELL

MRG

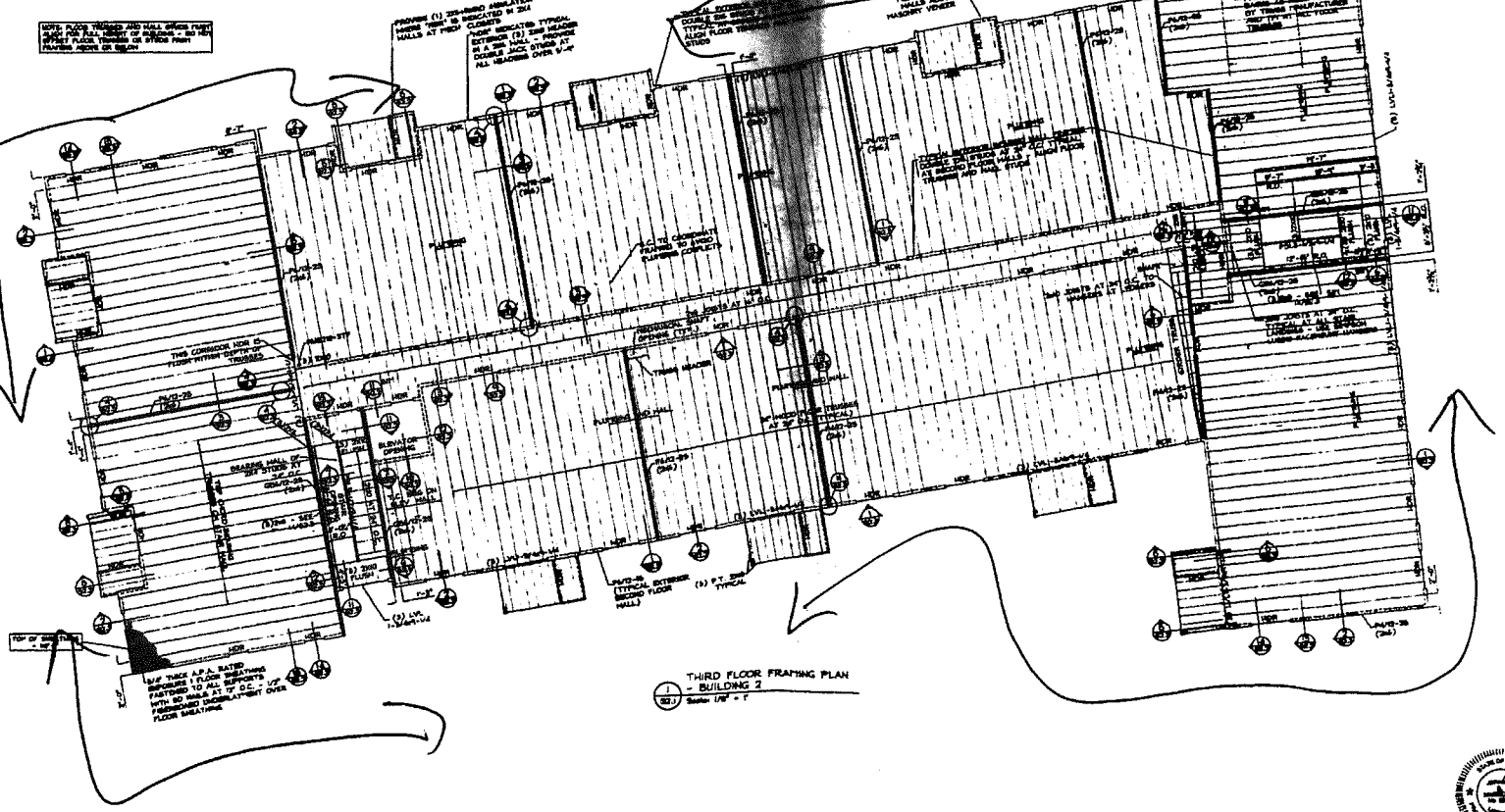
6-11-13
BAY HOUSE
1403-001
GS

AREA OF OBSERVATION

SCHEDULE OF SHEAR WALL CONSTRUCTION	
DESIGNATION	SHEATHING AND FASTENING
GB5/12-25 (SEE ARCHITECTURAL DRAWINGS)	2" LAMINATED GYPSUM ASSEMBLY ONE SIDE, NO.6 SCREWS AT 6/12, BLOCKED (2) LAYERS 5/8" GYP. WALLBOARD OTHER SIDE, SCREWS AT 6/12, BLOCKED
FB4/6-25	FIBERBOARD WALL SHEATHING ON TWO SIDES, 8D NAILS AT 4/6, BLOCKED
FB3/6-25	FIBERBOARD WALL SHEATHING ON TWO SIDES, 8D NAILS AT 3/6, BLOCKED
WD10-25	WOOD SHEATHING ONE SIDE WITH 10D NAILS AT 4/12, BLOCKED
WD10-25	WOOD SHEATHING TWO SIDES WITH 10D NAILS AT 6/12, BLOCKED
WD10-18 (TYP. EXT. WALL, U.N.O.)	WOOD SHEATHING ONE SIDE WITH 10D NAILS AT 6/12, BLOCKED

NOTE:
- FASTENER PATTERN SHALL BE REPRESENTED AS "SPACING OF FASTENERS AT THE PERIMETER OF THE PANEL"/"SPACING OF FASTENERS IN THE FIELD OF THE PANEL."
- GYPSUM WALLBOARD SHALL BE FASTENED IN PATTERN WITH NO. 6 SCREWS (TYPE S OR W) WITH LENGTH SUFFICIENT TO PROVIDE MINIMUM 1" PENETRATION INTO WOOD FRAMING AT 4/7, 5/6", AND 7" THICKNESSES
- "BLOCKED" SHALL INDICATE THAT ALL EDGES OF THE APPLIED SHEATHING MUST BE BLOCKED AND FASTENED PER THE FASTENER SPACING INDICATED
- WOOD SHEATHING SHALL BE 15/32" A.P.A. RATED EXTERIOR 1 PLYWOOD OR OSB SHEATHING. TYPICAL FASTENERS OF WOOD SHEATHING SHALL BE 10D NAILS AT FASTENING 6" ON CENTER AT ALL EDGES (BLOCKED) AND 12" ON CENTER IN THE FIELD OF THE PANEL, TO ALL SUPPORTS, UNLESS NOTED OTHERWISE.
- INTERIOR WALL SHEATHING SHALL BE 1/2" THICK STRUCTURAL FIBERBOARD WALL SHEATHING SATISFYING ASTM C 208, TYPE IV, GRADE 2, STRUCTURAL.
- SEE DETAIL GWB-4 FOR FASTENING OF BOTTOM PLATES OF SHEAR WALL TO SECOND FLOOR SLAB.
- SEE SHEETS S2.3 AND S2.7 FOR SHEAR WALL FASTENING DETAILS AT WOOD FRAMED FLOOR LOCATIONS AND ROOF LOCATIONS, RESPECTIVELY.

NOTE: FLOOR TRUSSES AND WALL STUDS MUST BE IN PLACE FOR FULL HEIGHT OF BUILDING - DO NOT INSTALL WALL TRUSSES OR STRUTS PRIOR TO FRAMING ABOVE OR BELOW



1 THIRD FLOOR FRAMING PLAN - BUILDING 2
S2.1 Scale: 1/8" = 1'-0"

JSN Associates, Inc.

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c/o Atlas Investments Group
35 Fay Street Suite 5-2
Boston, MA 02118

THE BAY HOUSE
Middle Street
Portland, Maine

THIRD FLOOR FRAMING
Building 2
Scale: 1/8" = 1'-0"
Commission No: 8-015
Date: September 5, 2012

REVISIONS:

DRG. NO.
S2.1
JSN: 01010

11/5/12

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WOOD CONSTRUCTION OBSERVATION REPORT

Project Name: THE BAY HOUSE Date: 6-19-13

Client/Project #: 1403-001 Time: –

General Contractor: METRIC CONSTRUCTION Weather: SUN

Approved Documents Referenced: THE BAY HOUSE 9-5-12

Document Sheets/Details Referenced: SHEET S2.1, S2.2 S2.3 S3.1, S4.1, S5.1

Location of Observations: BUILDING 2

ITEMS CHECKED

Item	In Accordance With Documents	Not In Accordance With Documents	Not Applicable
Species & Grade of Lumber Used	☑	☐	☐
Wood Frame Connections	☑	☐	☐
Frame Configuration	☑	☐	☐
Temporary & Permanent Bracing	☑	☐	☐
Fastening of Lateral Load Resistant Elements (Shear Walls & Diaphrams)	☑	☐	☐

Other: _____

Observations were verbally reported to:
BOB MACHAPELLE, METRIC CONST.

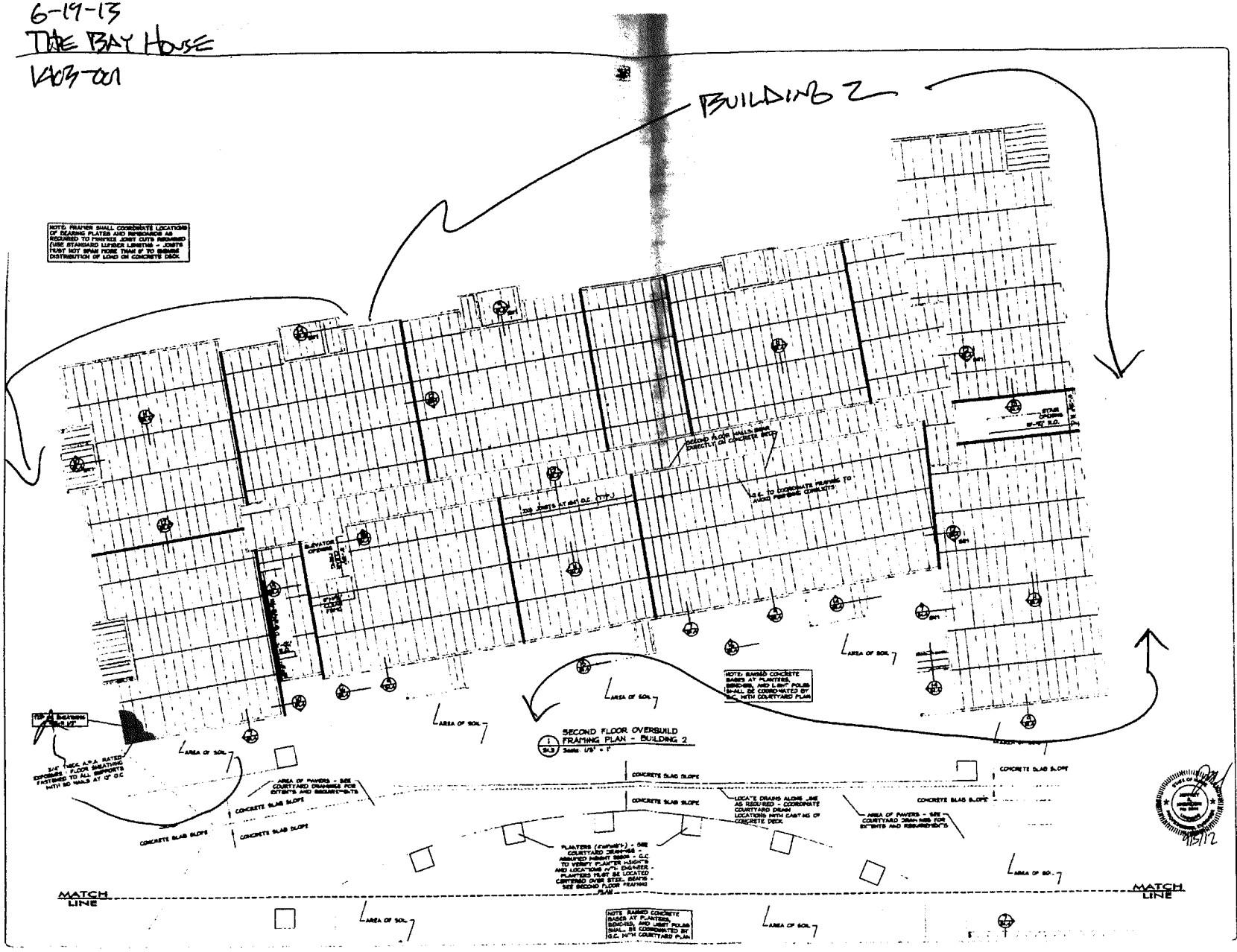
Construction Technologist:
George S Morrell

Print Name/Title
GEORGE S MORRELL

MTC

6-19-13
THE BAY HOUSE
1403-001

BUILDING 2



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c/o Atlas Investments Group
35 Fay Street Suite 502
Boston, MA 02118

THE BAY HOUSE
Middle Street
Portland, Maine

SECOND FLOOR FRAMING
Building 2
Scale: 1/8" = 1'-0"
Commission No: 1-08
Date: September 3, 2012

REVISIONS:

DRG. NO.
S1.3

R. W. GILLESPIE & ASSOCIATES, INC.
Geotechnical Engineering * Geohydrology * Materials Testing Services

200 International Dr., Ste. 170
Portsmouth, NH 03801
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Corporate Office
86 Industrial Park Rd, Ste. 4
Saco, ME 04072
207-286-8008 C Fax 207-286-2882

WOOD CONSTRUCTION OBSERVATION REPORT

Project Name: THE BAY HOUSE Date: 7-23-13

Client/Project #: 1403-001 Time: —

General Contractor: METRIC CONSTRUCTION Weather: RAIN/SHOWERS

Approved Documents Referenced: THE BAY HOUSE 9-5-2012

Document Sheets/Details Referenced: SHEET S1.2, S1.4, S1.5, S2.0, S2.2, S2.3

Location of Observations: BUILDING 1 SECOND & THIRD FLOOR

ITEMS CHECKED

Item	In Accordance With Documents	Not In Accordance With Documents	Not Applicable
Species & Grade of Lumber Used	☒	☐	☐
Wood Frame Connections	☒	☐	☐
Frame Configuration	☒	☐	☐
Temporary & Permanent Bracing	☐	☒ *	☐
Fastening of Lateral Load Resistant Elements (Shear Walls & Diaphrams)	☐	☐	☒

Other: * BLOCKING & BRACING INCOMPLETE AT THIS TIME

Observations were verbally reported to:
METRIC CONSTRUCTION

Construction Technologist:
George S Morrell

Print Name/Title
GEORGE S MORRELL

MTC

R. W. GILLESPIE & ASSOCIATES, INC.
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WOOD CONSTRUCTION OBSERVATION REPORT

Project Name: THE BAY HOUSE Date: 8-2-13

Client/Project #: 1403-001 Time: —

General Contractor: METRIC CONSTRUCTION Weather: OVERCAST

Approved Documents Referenced: THE BAY HOUSE 9-5-2012

Document Sheets/Details Referenced: S3.0, S2.3

Location of Observations: BUILDING 1

ITEMS CHECKED

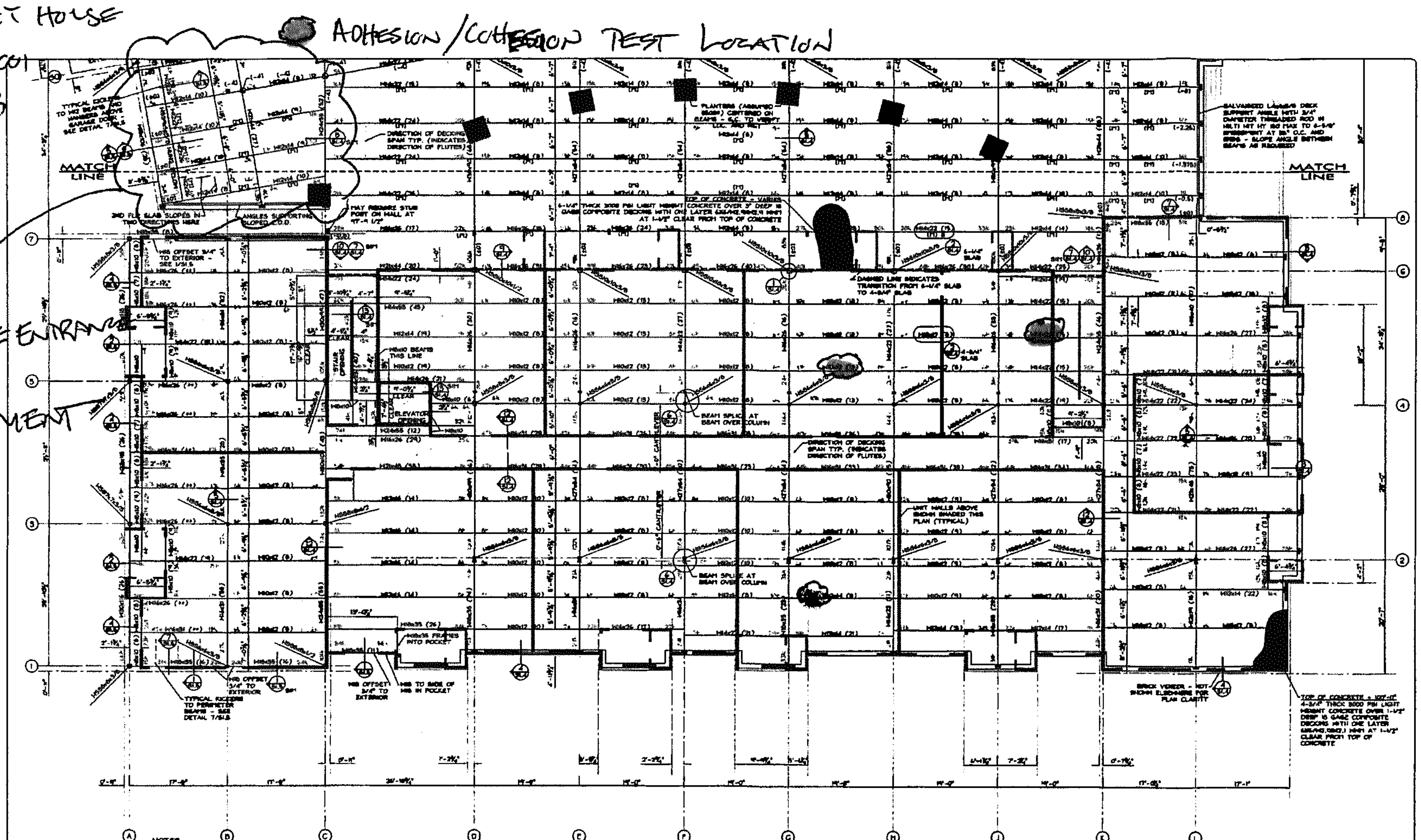
Item	In Accordance With Documents	Not In Accordance With Documents	Not Applicable
Species & Grade of Lumber Used	☑	☐	☐
Wood Frame Connections	☑	☐	☐
Frame Configuration	☑	☐	☐
Temporary & Permanent Bracing	☐	* ☑	☐
Fastening of Lateral Load Resistant Elements (Shear Walls & Diaphrams)	☑	☐	☐

Other: BLOCK NOT INSTALLED AT THIS TIME & INCOMPLETE

Observations were verbally reported to:
BOB LACHAPELLE

Construction Technologist:
George S McKee

Print Name/Title
GEORGE S MCKEE
MTC



NOTES:

1. G.C. SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS. G.C. MAY CONTACT ARCHITECT IF DIMENSIONAL CLARIFICATION IS NEEDED DUE TO SCALE OF DRAWINGS.
2. PROTECT STEEL WITH INTUMESCENT PAINT PER ARCHITECT. PROTECT ALL STEEL NOT RECEIVING INTUMESCENT PAINT (PER ARCHITECT) WITH PRIMER. DO NOT PAINT TOP FLANGES OF BEAMS.
3. [illegible]
4. SEE SHEETS S1.0 AND S4.1 FOR ADDITIONAL STRUCTURAL NOTES.
5. [illegible]
6. [illegible]
7. [illegible]
8. VERIFY STAIR OPENING DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
9. [illegible]
10. [illegible]
11. [illegible]
12. [illegible]

SECOND FLOOR FRAMING PLAN - BUILDING 1
Scale: 1/8" = 1'

[illegible]

BEAM	MINIMUM NUMBER OF BOLTS	SHEAR TAB TO COLUMN	DOUBLE ANGLE TO BEAM
W8	2	17.4 KIPS	17.4 KIPS
W10	2	[illegible]	[illegible]
W12	[illegible]	[illegible]	[illegible]
W14	3	[illegible]	[illegible]
W16	4	[illegible]	[illegible]
W18	[illegible]	[illegible]	[illegible]
W21	4	[illegible]	[illegible]
W24	7	[illegible]	[illegible]
W27	7	[illegible]	[illegible]
W30	[illegible]	[illegible]	[illegible]
W33	9	[illegible]	[illegible]
W36	10	[illegible]	[illegible]

NOTE: [illegible]

JSN Associates, Inc.

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35 Fay Street Suite 5-2
Boston, MA 02118

THE BAY HOUSE
Middle Street
Portland, Maine

GARAGE DECK FRAMING
Building 1
Scale: 1/8" = 1' 0"
Commission No: 11-08
Date: September 5, 2012

REVISIONS:

DRG. NO.
S1.0

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207-286-8008 C Fax 207-286-2882

WOOD CONSTRUCTION OBSERVATION REPORT

Project Name: THE BAY HOUSE Date: 8-6-13

Client/Project #: 1403-001 Time: 5.0

General Contractor: METRIC CONSTRUCTION Weather:

Approved Documents Referenced: THE BAY HOUSE 9-5-12

Document Sheets/Details Referenced: S1.2, S1.4, S1.5, S2.0, S2.2, S2.3

Location of Observations: BUILDING 1 2ND - 4TH FLOOR S3.0

ITEMS CHECKED

Item	In Accordance With Documents	Not In Accordance With Documents	Not Applicable
Species & Grade of Lumber Used	☑	☐	☐
Wood Frame Connections	☑	☐	☐
Frame Configuration	☑	☐	☐
Temporary & Permanent Bracing	☑	☑	☐
Fastening of Lateral Load Resistant Elements (Shear Walls & Diaphrams)	☑	☑	☐

Other: NOTE! 2ND & 3RD FOR ARE COMPLETE AND APPEAR TO BE WITH IN PROJECT SPECIFICATIONS.
4TH FLOOR NOT COMPLETE.

Observations were verbally reported to:
BOB LACHAPELLE, METRIC

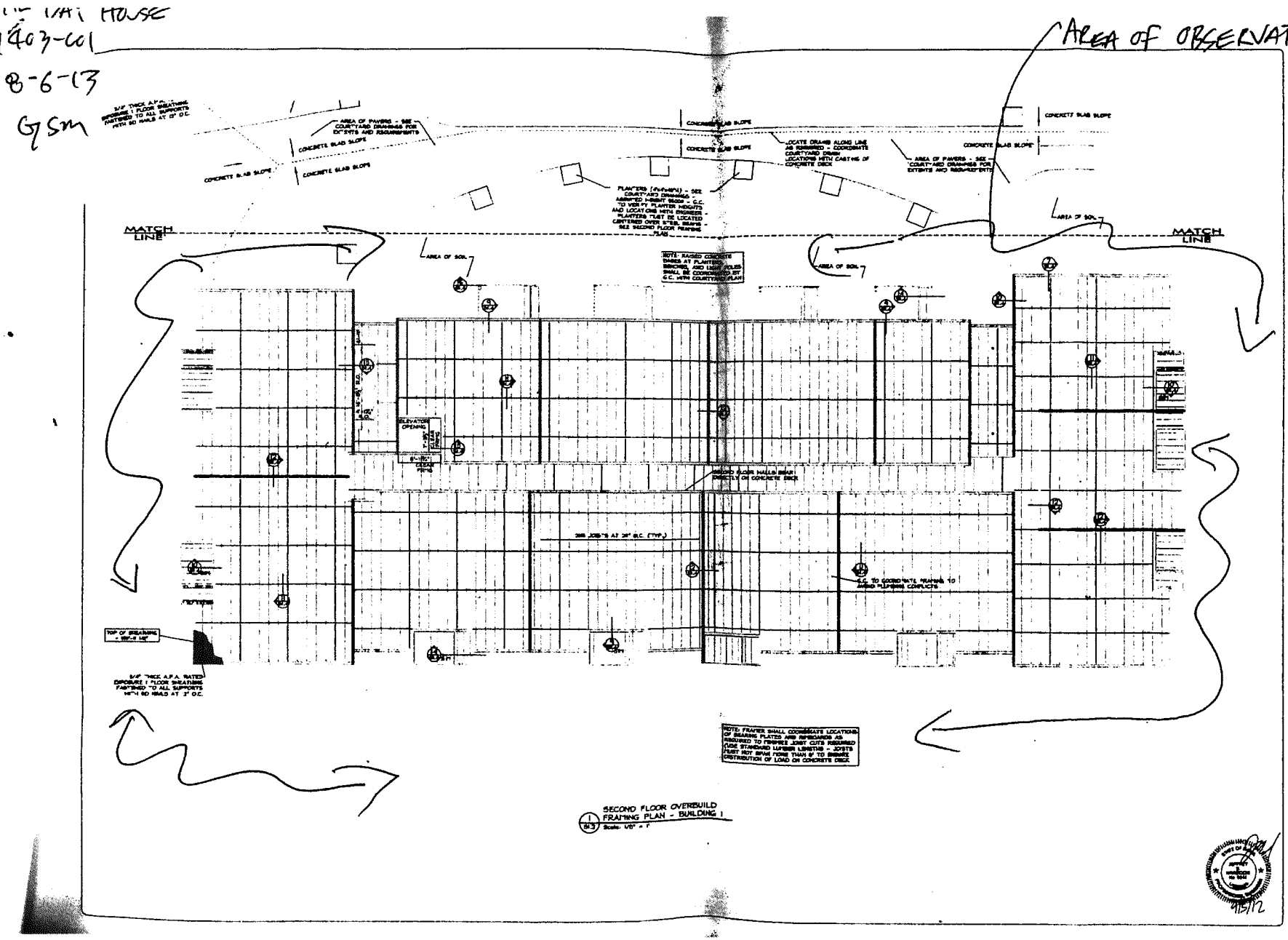
Construction Technologist:
George S Morell

Print Name/Title
GEORGE S MORELL

MR

THE BAY HOUSE
1403-001
8-6-13
GSM

AREA OF OBSERVATION



1 SECOND FLOOR OVERBUILD FRAMING PLAN - BUILDING 1
S3 Scale: 1/8" = 1'

4/5/12

JSN Associates, Inc.

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(603) 477-3405

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c/o Atlas Investments Group
35 Fay Street Suite 5-2
Boston, MA 02118

THE BAY HOUSE
Middle Street
Portland, Maine

SECOND FLOOR FRAMING
Building 1
Scale: 1/8" = 1'-0"
Commission No. 1-08
Date: September 5, 2012

REVISIONS:

DRG. NO.
S1.2

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207-286-8008 C Fax 207-286-2882

WOOD CONSTRUCTION OBSERVATION REPORT

Project Name: THE BAY HOUSE Date: 8-14-13

Client/Project #: 1403-001 Time: 3:15

General Contractor: METRIC CONSTRUCTION Weather: _____

Approved Documents Referenced: THE BAY HOUSE 9-5-12

Document Sheets/Details Referenced: SHEET S3.0, S2.2, S2.3

Location of Observations: _____

ITEMS CHECKED

Item	In Accordance With Documents	Not In Accordance With Documents	Not Applicable
Species & Grade of Lumber Used	☑	☐	☐
Wood Frame Connections	☑	☐	☐
Frame Configuration	☑	☐	☐
Temporary & Permanent Bracing	☑	☐	☐
Fastening of Lateral Load Resistant Elements (Shear Walls & Diaphrams)	☑	☐	☐

Other: BUILDING 1 2ND - 4th FLOOR APPEARS COMPLETE AND WITHIN PROJECT SPECIFICATIONS.

Observations were verbally reported to:
BOB LACHAPELLE

Construction Technologist:
George S Morrell

Print Name/Title
GEORGE S MORRELL

-1403-001
THE BAY HOUSE
8-14-13
GSM

AREA OF OBSERVATION

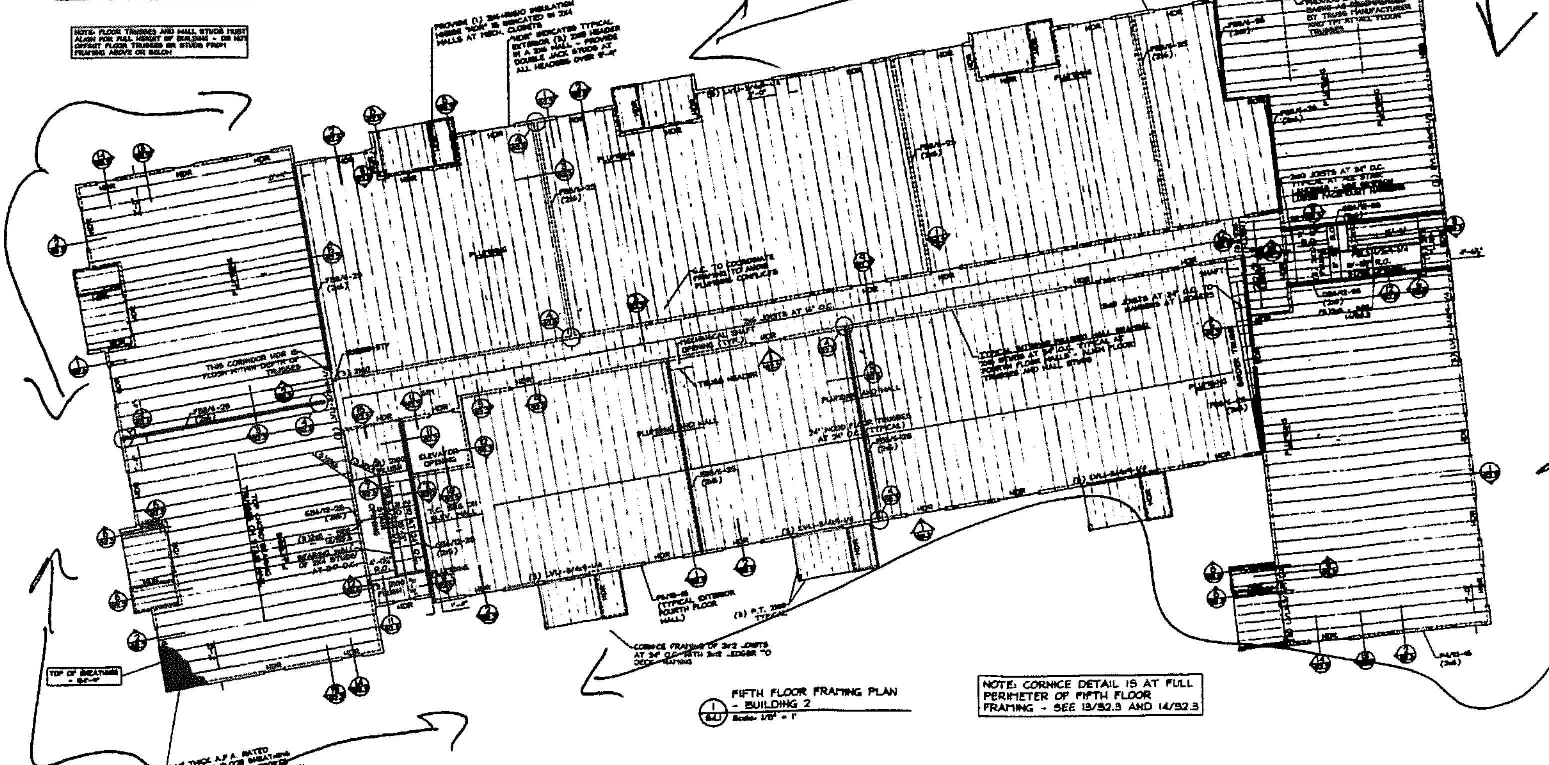
SCHEDULE OF SHEAR WALL CONSTRUCTION DESIGNATION	SHEATHING AND FASTENING
GB6/12-25 (SEE ARCHITECTURAL DRAWINGS)	2" LAMINATED GYPSUM ASSEMBLY ONE SIDE, NO.6 SCREWS AT 6/12, BLOCKED (2) LAYERS 5/8" GYP. WALLBOARD OTHER SIDE, SCREWS AT 6/12, BLOCKED
FB4/6-25	FIBERBOARD WALL SHEATHING ON TWO SIDES, 8D NAILS AT 4/6, BLOCKED
FB3/6-25	FIBERBOARD WALL SHEATHING ON TWO SIDES, 8D NAILS AT 3/6, BLOCKED
P4/12-15	WOOD SHEATHING ONE SIDE WITH 10D NAILS AT 4/12, BLOCKED
P6/12-25	WOOD SHEATHING TWO SIDES WITH 10D NAILS AT 6/12, BLOCKED
P6/12-15 (TYP. EXT. WALL, U.N.O.)	WOOD SHEATHING ONE SIDE WITH 10D NAILS AT 6/12, BLOCKED

NOTE:
- FASTENER PATTERN SHALL BE REPRESENTED AS "SPACING OF FASTENERS AT THE PERIMETER OF THE PANEL"/"SPACING OF FASTENERS IN THE FIELD OF THE PANEL"
- GYPSUM WALLBOARD SHALL BE FASTENED IN PATTERN WITH NO. 6 SCREWS (TYPE S OR W) WITH LENGTH SUFFICIENT TO PROVIDE MINIMUM 1" EMBEDMENT INTO WOOD FRAMING AT 1/2", 5/8", AND 1" THICKNESSES
- "BLOCKED" SHALL INDICATE THAT ALL EDGES OF THE APPLIED SHEATHING MUST BE BLOCKED AND FASTENED PER THE FASTENER SPACING INDICATED
- WOOD SHEATHING SHALL BE 15/32" A.P.A. RATED EXPOSURE I PLYWOOD OR OSB SHEATHING. TYPICAL FASTENING OF WOOD SHEATHING SHALL BE MINIMUM 10D NAILS AT FASTENED 6" ON CENTER AT ALL EDGES (BLOCKED) AND 12" ON CENTER IN THE FIELD OF THE PANEL TO ALL SUPPORTS, UNLESS NOTED OTHERWISE.
- INTERIOR WALL SHEATHING SHALL BE 1/2" THICK STRUCTURAL FIBERBOARD WALL SHEATHING SATISFYING ASTM C 208, TYPE IV, GRADE 2, STRUCTURAL.
- SEE DETAIL 8/S5.4 FOR FASTENING OF BOTTOM PLATES OF SHEAR WALL TO SECOND FLOOR SLAB.
- SEE SHEETS S6.3 AND S6.2 FOR SHEAR WALL FASTENING DETAILS AT WOOD FRAMED FLOOR LOCATIONS AND ROOF LOCATIONS, RESPECTIVELY.

NOTES:

1. G.C. SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS. G.C. MAY CONTACT ARCHITECT IF DIMENSIONAL CLARIFICATION IS NEEDED DUE TO SCALE OF DRAWINGS.
2. TOP OF FIFTH FLOOR SHEATHING IS AT 154'-4".
3. SEE SHEETS S0.0 AND S0.1 FOR ADDITIONAL STRUCTURAL NOTES.
4. COORDINATE FLOOR OPENINGS WITH PLUMBING DRAWINGS. G.C. TO ENSURE OPENINGS ARE LOCATED IN SUCH A MANNER AS NOT TO INTERFERE WITH THE BEARING WALLS OR FLOOR TRUSSES.
5. VERIFY STAIR OPENING DIMENSIONS WITH ARCHITECTURAL DRAWINGS (TYP.).
6. TYPICAL WOOD POSTS SHOWN IN FRAMED WALLS SHALL BE TRIPLE STUD POSTS. PROVIDE (3) 2X6 POST IN 2X6 WALLS AND (3) 2X4 POST IN 2X4 WALLS.
7. FASTEN STAIR STRINGERS TO STAIR WALLS WITH (2) 1/4" DIAMETER LAG SCREWS INTO STUDS AT 48" O.C. (EVERY OTHER STUD). PROVIDE 3" PENETRATION INTO WALL STUDS.
8. FLOOR TRUSSES AND WALL STUDS ALIGN THROUGHOUT THIS PROJECT. WHERE FLOOR TRUSS SPACING IS ALTERED FOR PLUMBING, PROVIDE WALL STUD BENEATH EACH TRUSS.

NOTE: FLOOR TRUSSES AND WALL STUDS MUST ALIGN FOR FULL HEIGHT OF BUILDING - DO NOT OFFSET FLOOR TRUSSES OR STUDS FROM FRAMING ABOVE OR BELOW



FIFTH FLOOR FRAMING PLAN - BUILDING 2
Scale: 1/8" = 1'

NOTE: CORNICE DETAIL IS AT FULL PERIMETER OF FIFTH FLOOR FRAMING - SEE 13/S2.3 AND 14/S2.3

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Middle Street
Portland, Maine

FIFTH FLOOR FRAMING
Building 2
Scale: 1/8" = 1'-0"
Commission No. 11-05
Date: September 5, 2012

REVISIONS:

DRG. NO.
S4.1

9/5/12

R. W. GILLESPIE & ASSOCIATES, INC.
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Saco, ME 04072
207-286-8008 C Fax 207-286-2882

WOOD CONSTRUCTION OBSERVATION REPORT

Project Name: THE BAY HOUSE Date: 8-15-12

Client/Project #: 1403-001 Time: 4:15

General Contractor: METRIC Weather: _____

Approved Documents Referenced: THE BAY HOUSE

Document Sheets/Details Referenced: S4.0 S2.2, S2.3

Location of Observations: BUILDING 1 FIFTH FLOOR

ITEMS CHECKED

Item	In Accordance With Documents	Not In Accordance With Documents	Not Applicable
Species & Grade of Lumber Used	☑	☐	☐
Wood Frame Connections	☑	☐	☐
Frame Configuration	☑	☐	☐
Temporary & Permanent Bracing	☑	☐	☐
Fastening of Lateral Load Resistant Elements (Shear Walls & Diaphrams)	☑	☐	☐

Other: _____

Observations were verbally reported to:
BOB LACHAPELLE

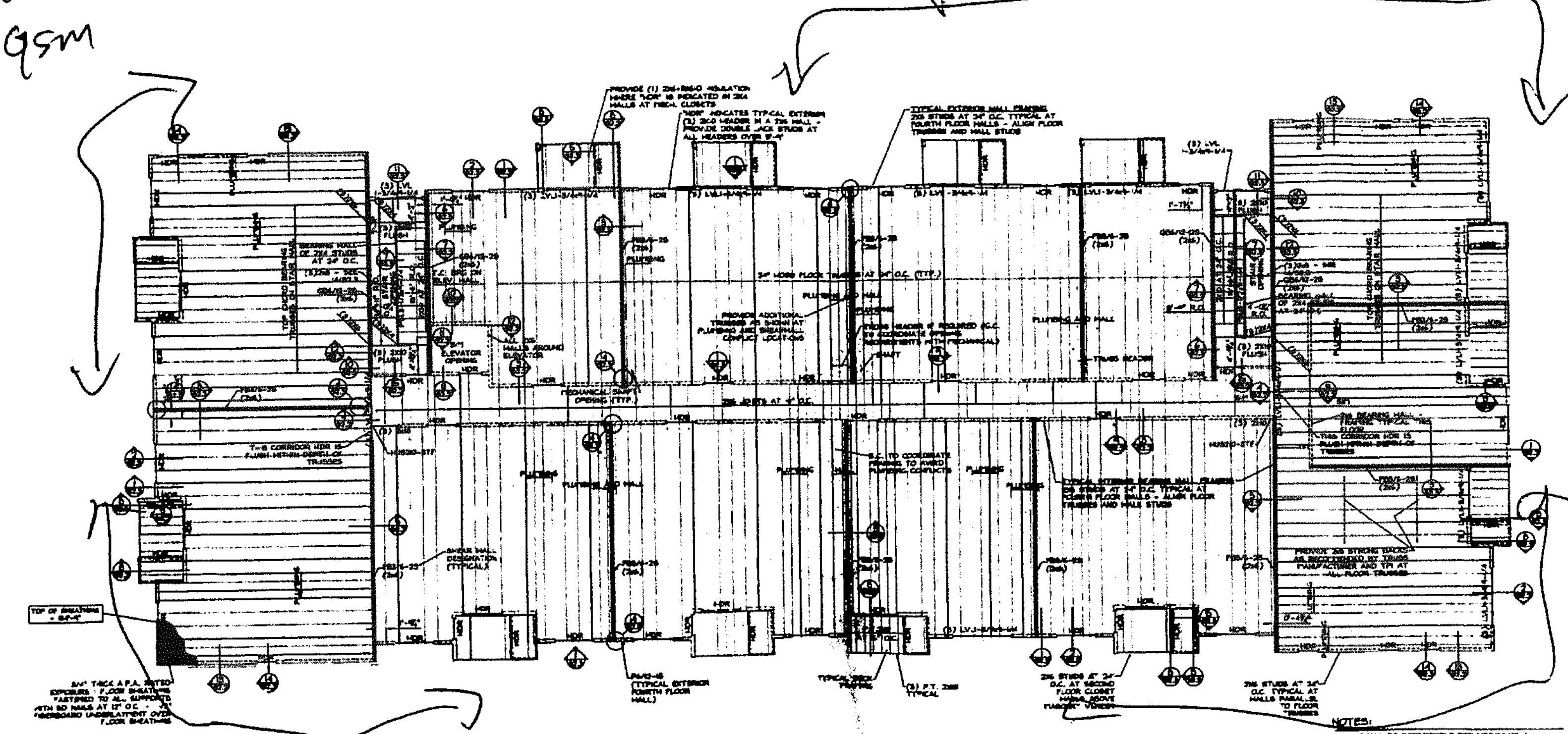
Construction Technologist:
George S Morrell

Print Name/Title
GEORGE S MORRELL

MTO

THE BAY HOUSE
1403-001
8-15-13
gsm

AREA OF OBSERVATION



NOTE: FLOOR TRUSSES AND WALL STUDS MUST ALIGN FOR FULL HEIGHT OF BUILDING - DO NOT OFFSET FLOOR TRUSSES OR STUDS FROM FRAMING ABOVE OR BELOW

NOTE: TRUSSES HAVE BEEN SPACED TO AVOID PLUMBING CONFLICTS - TRUSS MANUFACTURER SHALL ENSURE COORDINATION OF TRUSS LAYOUT WITH FINAL PLUMBING DESIGN

SCHEDULE OF SHEAR WALL CONSTRUCTION

DESIGNATION	SHEATHING AND FASTENING
GB6/12-2B (SEE ARCHITECTURAL DRAWINGS)	2" LAMINATED GYPSUM ASSEMBLY ONE SIDE, NO.6 SCREWS AT 6/12, BLOCKED (2) LAYERS 5/8" GYP. WALLBOARD OTHER SIDE, SCREWS AT 6/12, BLOCKED
FB4/6-25	FIBERBOARD WALL SHEATHING ON TWO SIDES, 8D NAILS AT 4/6, BLOCKED
FB3/6-25	FIBERBOARD WALL SHEATHING ON TWO SIDES, 8D NAILS AT 3/6, BLOCKED
P4/12-15	WOOD SHEATHING ONE SIDE WITH 10D NAILS AT 4/12, BLOCKED
P6/12-25	WOOD SHEATHING TWO SIDES WITH 10D NAILS AT 6/12, BLOCKED
P6/12-15 (TYP. EXT. WALL, U.N.O.)	WOOD SHEATHING ONE SIDE WITH 10D NAILS AT 6/12, BLOCKED

NOTE:
- FASTENER PATTERN SHALL BE REPRESENTED AS "SPACING OF FASTENERS AT THE PERIMETER OF THE PANEL"/"SPACING OF FASTENERS IN THE FIELD OF THE PANEL"
- GYPSUM WALLBOARD SHALL BE FASTENED IN PATTERN WITH NO. 6 SCREWS (TYPE S OR W) WITH LENGTH SUFFICIENT TO PROVIDE MINIMUM 1" EMBEDMENT INTO WOOD FRAMING AT 1/2", 5/8", AND 1" THICKNESSES
- "BLOCKED" SHALL INDICATE THAT ALL EDGES OF THE APPLIED SHEATHING MUST BE BLOCKED AND FASTENED PER THE FASTENER SPACING INDICATED
- WOOD SHEATHING SHALL BE ... A.P.A. RATED EXPOSURE 1 PLYWOOD OR OSB SHEATHING. TYPICAL FASTENING OF WOOD SHEATHING SHALL BE MINIMUM 10D NAILS AT FASTENED 6" ON CENTER AT ALL EDGES (BLOCKED) AND 12" ON CENTER IN THE FIELD OF THE PANEL TO ALL SUPPORTS, UNLESS NOTED OTHERWISE.
- INTERIOR WALL SHEATHING SHALL BE 1/2" THICK STRUCTURAL FIBERBOARD WALL SHEATHING SATISFYING ASTM C 208, TYPE IV, GRADE 2, STRUCTURAL.
- SEE DETAIL ... FOR FASTENING OF BOTTOM PLATES OF SHEAR WALL TO SECOND FLOOR SLAB
- SEE SHEETS ... AND ... FOR SHEAR WALL FASTENING DETAILS AT WOOD FRAMED FLOOR LOCATIONS AND ROOF LOCATIONS, RESPECTIVELY.

1 / S4.0 FIFTH FLOOR FRAMING PLAN - BUILDING 1
Scale: 1/8" = 1'

NOTE: CORNICE DETAIL IS AT FULL PERIMETER OF FIFTH FLOOR FRAMING - SEE 13/S2.3 AND 14/S2.3

NOTES:

1. G.C. SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS. G.C. MAY CONTACT ARCHITECT IF DIMENSIONAL CLARIFICATION IS NEEDED DUE TO SCALE OF DRAWINGS.
2. TOP OF FIFTH FLOOR SHEATHING IS AT 164'-9"
3. SEE SHEETS S0.0 AND S0.1 FOR ADDITIONAL STRUCTURAL NOTES.
4. COORDINATE FLOOR OPENINGS WITH PLUMBING DRAWINGS. G.C. TO ENSURE OPENINGS ARE LOCATED IN SUCH A MANNER AS NOT TO INTERFERE WITH THE BEARING WALLS OR FLOOR TRUSSES.
5. VERIFY STAIR OPENING DIMENSIONS WITH ARCHITECTURAL DRAWINGS (TYP.).
6. TYPICAL WOOD POSTS SHOWN IN FRAMED WALLS SHALL BE TRIPLE STUD POSTS. PROVIDE (3) 2X6 POST IN 2X6 WALLS AND (3) 2X4 POST IN 2X4 WALLS.
7. FASTEN STAIR STRINGERS TO STAIR WALLS WITH (2) 1/4" DIAMETER LAG SCREWS INTO STUDS AT 48" O.C. (EVERY OTHER STUD). PROVIDE 2" PENETRATION INTO WALL STUDS
8. FLOOR TRUSSES AND WALL STUDS ALIGN THROUGHOUT THIS PROJECT. WHERE FLOOR TRUSS SPACING IS ALTERED FOR PLUMBING, PROVIDE WALL STUDS BENEATH EACH TRUSS

JSN Associates, Inc.

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P. O. Box 447
Goffstown, New Hampshire 03045
(603) 497-3405

THE VILLAGE AT OCEAN GATE, LLC
c/o Atlas Investments Group
35 Pay Street Suite 5-2
Boston, MA 02118

THE BAY HOUSE
Middle Street
Portland, Maine

FIFTH FLOOR FRAMING
Building 1
Scale: 1/8" = 1'0"
Commission No: 11-08
Date: September 5, 2012

REVISIONS:

DRG. NO.
S4.0

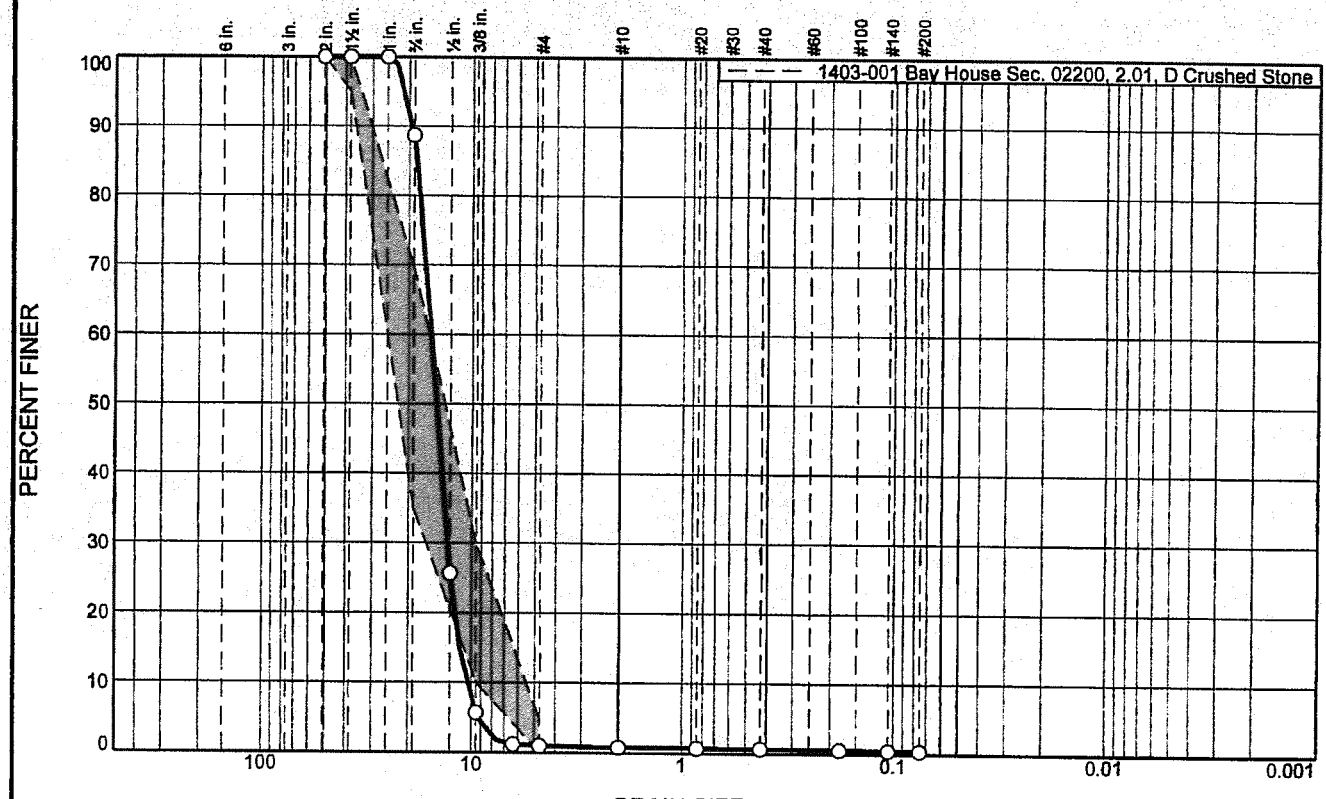
9/5/12

APPENDIX G

LAB TEST RESULTS - SOILS

Summary Report of Special Inspections
The Bay House
Portland, Maine

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	11.3	87.7	0.2	0.2	0.2	0.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0 - 100.0	
1 1/2"	100.0	95.0 - 100.0	
1"	100.0		
3/4"	88.7	35.0 - 70.0	X
1/2"	25.7		
3/8"	5.7	10.0 - 30.0	X
1/4"	1.2		
#4	1.0	0.0 - 5.0	
#10	0.8		
#20	0.7		
#40	0.6		
#80	0.5		
#140	0.4		
#200	0.4		

* 1403-001 Bay House Sec. 02200, 2.01, D Crushed Stone

Soil Description

3/4" Crush Stone

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 18.4333 D_{60}= 15.6937 D_{50}= 14.8255
D_{30}= 13.1098 D_{15}= 11.4351 D_{10}= 10.5936
C_u= 1.48 C_c= 1.03

Classification

USCS= GP AASHTO=

Remarks

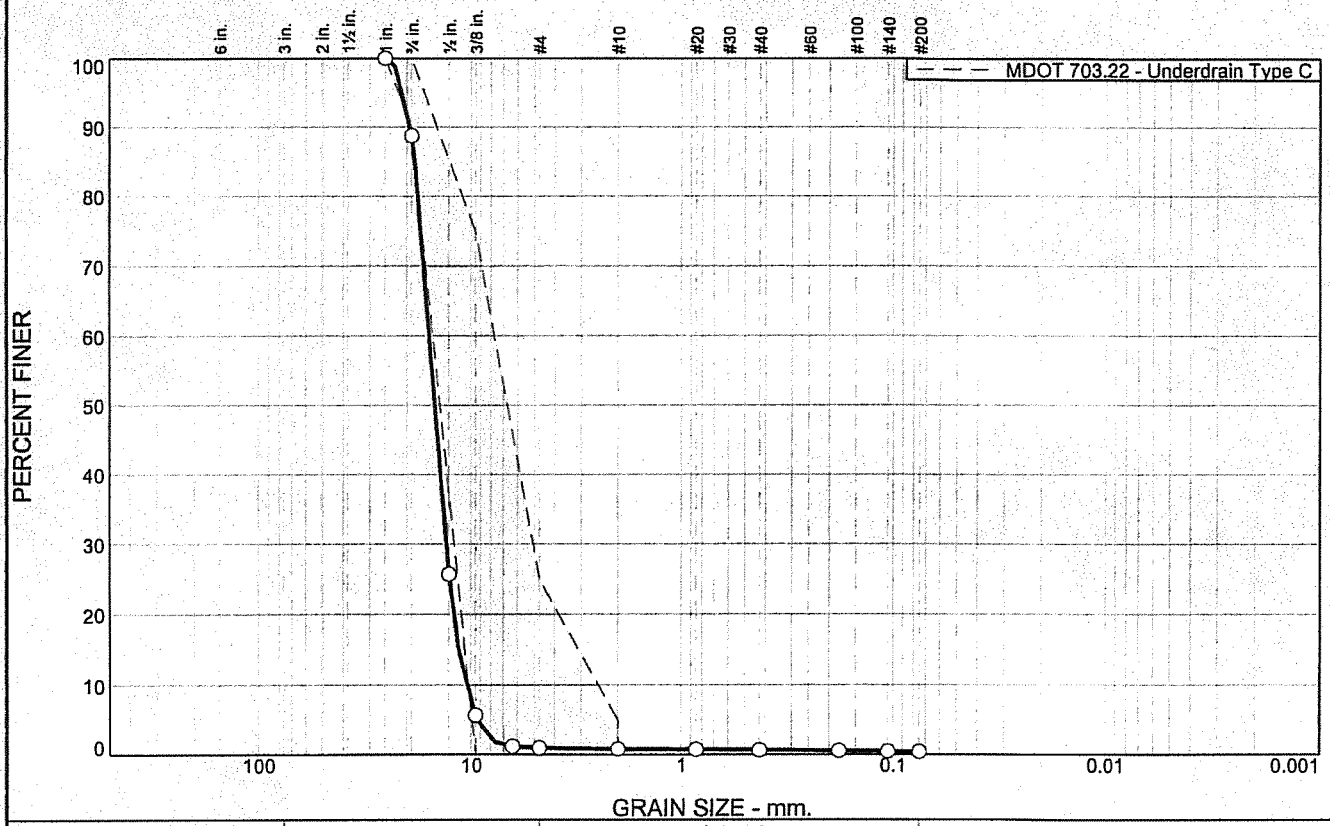
Sample No.: 12615 **Source of Sample:** R.J. Grondin **Date:** 11/5/2012
Location: Stockpile **Elev./Depth:**

R.W. Gillespie & Associates, Inc.
Saco, Maine

Client: The Village at Ocean Gate, LLC
Project: The Bay House
Project No: 1403-001 **Lab No.** 12615

Tested By: DCH **Checked By:** MTG MTG

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	11.3	87.7	0.2	0.2	0.2	0.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0	100.0 - 100.0	
3/4"	88.7	90.0 - 100.0	X
1/2"	25.7		
3/8"	5.7	0.0 - 75.0	
1/4"	1.2		
#4	1.0	0.0 - 25.0	
#10	0.8	0.0 - 5.0	
#20	0.7		
#40	0.6		
#80	0.5		
#140	0.4		
#200	0.4		

* MDOT 703.22 - Underdrain Type C

Soil Description

3/4" Crush Stone

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 18.4292 D_{60}= 15.6882 D_{50}= 14.8213
D_{30}= 13.1091 D_{15}= 11.4367 D_{10}= 10.5953
C_u= 1.48 C_c= 1.03

Classification

USCS= GP AASHTO=

Remarks

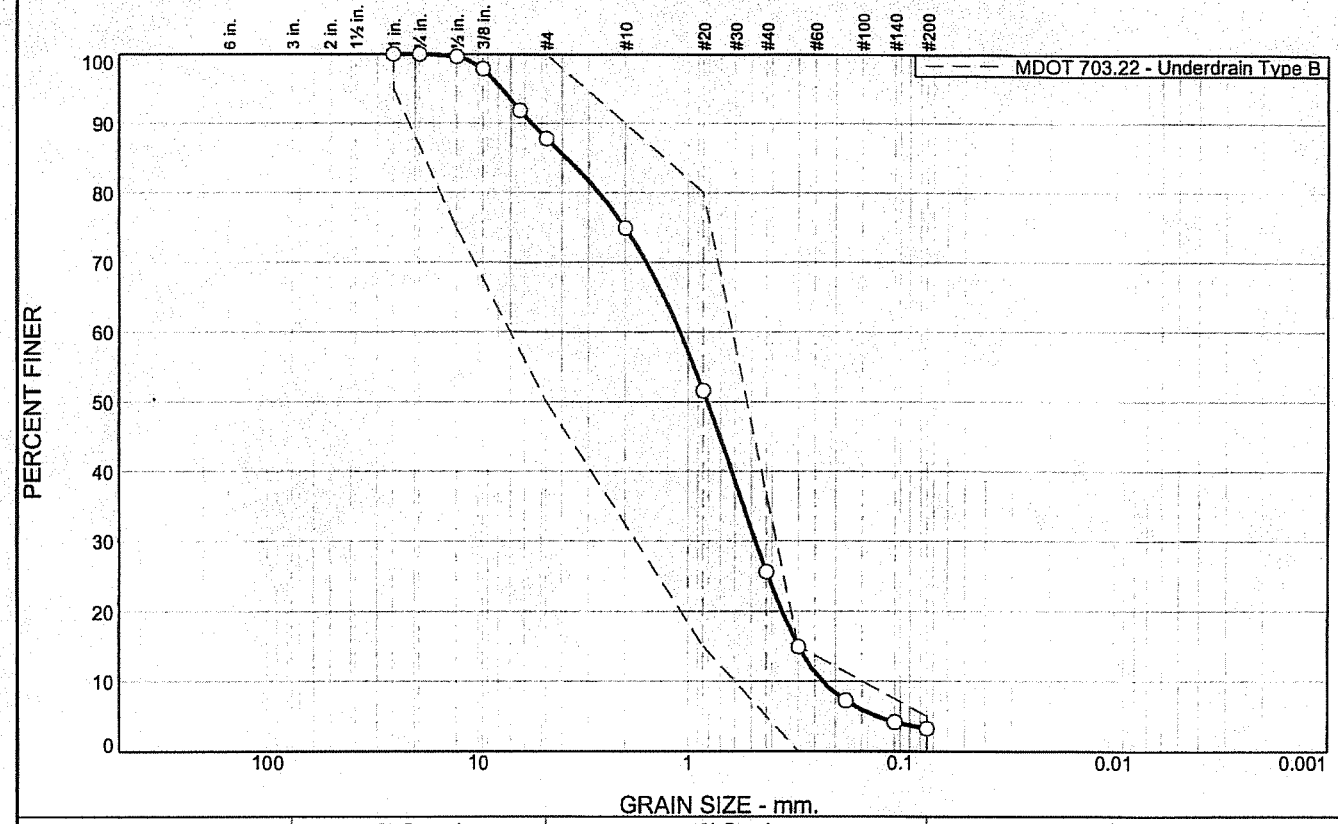
Sample No.: 12615 **Source of Sample:** R.J. Grondin **Date:** 11/5/2012
Location: Stockpile **Elev./Depth:**

R.W. Gillespie & Associates, Inc.
Saco, Maine

Client: The Village at Ocean Gate, LLC
Project: The Bay House
Project No: 1403-001 **Lab No.** 12615

Tested By: DCH **Checked By:** MTG
JMB

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	12.2	12.9	49.3	22.4	3.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0	95.0 - 100.0	
3/4"	100.0		
1/2"	99.6	75.0 - 100.0	
3/8"	97.9		
1/4"	91.8		
#4	87.8	50.0 - 100.0	
#10	74.9		
#20	51.6	15.0 - 80.0	
#40	25.6		
#50	14.9	0.0 - 15.0	
#80	7.2		
#140	4.2		
#200	3.2	0.0 - 5.0	

Soil Description

poorly graded sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 3.8192 D_{60}= 1.0989 D_{50}= 0.8127
D_{30}= 0.4791 D_{15}= 0.3012 D_{10}= 0.2313
C_u= 4.75 C_c= 0.90

Classification

USCS= SP AASHTO=

Remarks

Moisture Content: 1.4%

* MDOT 703.22 - Underdrain Type B (Section 02200, 2.01, J)

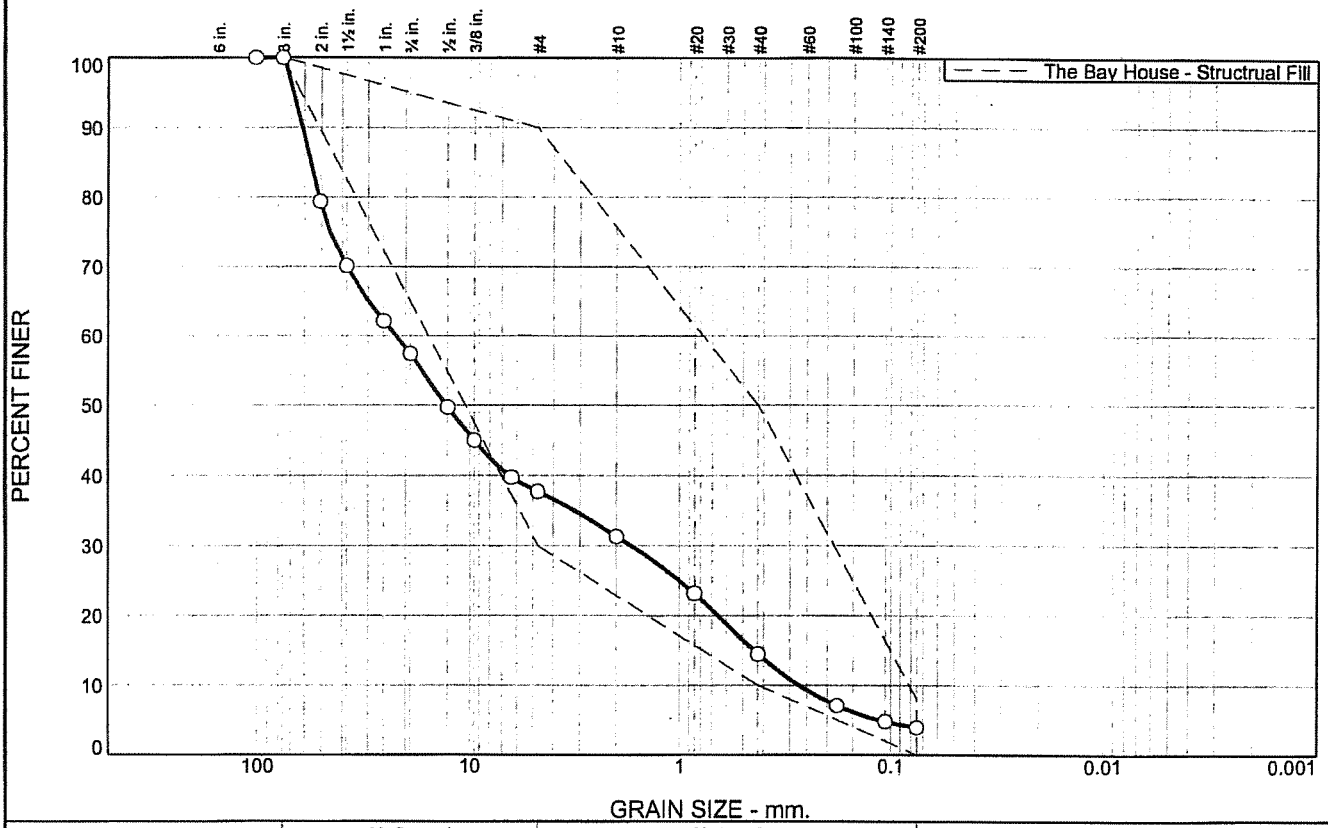
Sample No.: 12616 **Source of Sample:** Maietta - Baldwin **Date:** 11/5/2012
Location: Stockpile **Elev./Depth:**

R.W. Gillespie & Associates, Inc.
Saco, Maine

Client: The Village at Ocean Gate, LLC
Project: The Bay House
Project No: 1403-001 **Lab No.** 12616

Tested By: DCH **Checked By:** MTG JMB

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	42.6	19.7	6.3	16.9	10.6	3.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
4"	100.0		
3"	100.0	100.0 - 100.0	
2"	79.4		
1 1/2"	70.1		
1"	62.2		
3/4"	57.4		
1/2"	49.7		
3/8"	45.0		
1/4"	39.7		
#4	37.7	30.0 - 90.0	
#10	31.4		
#20	23.2		
#40	14.5	10.0 - 50.0	
#80	7.1		
#140	4.8		
#200	3.9	0.0 - 8.0	

* The Bay House - Structrual Fill (SECTION 02200, 2.01, I)

Soil Description

4" Minus - poorly graded gravel with sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 56.3597 D_{60}= 22.2318 D_{50}= 12.8966
D_{30}= 1.7015 D_{15}= 0.4441 D_{10}= 0.2720
C_u= 81.72 C_c= 0.48

Classification

USCS= GP AASHTO=

Remarks

Moisture Content: 3.6%

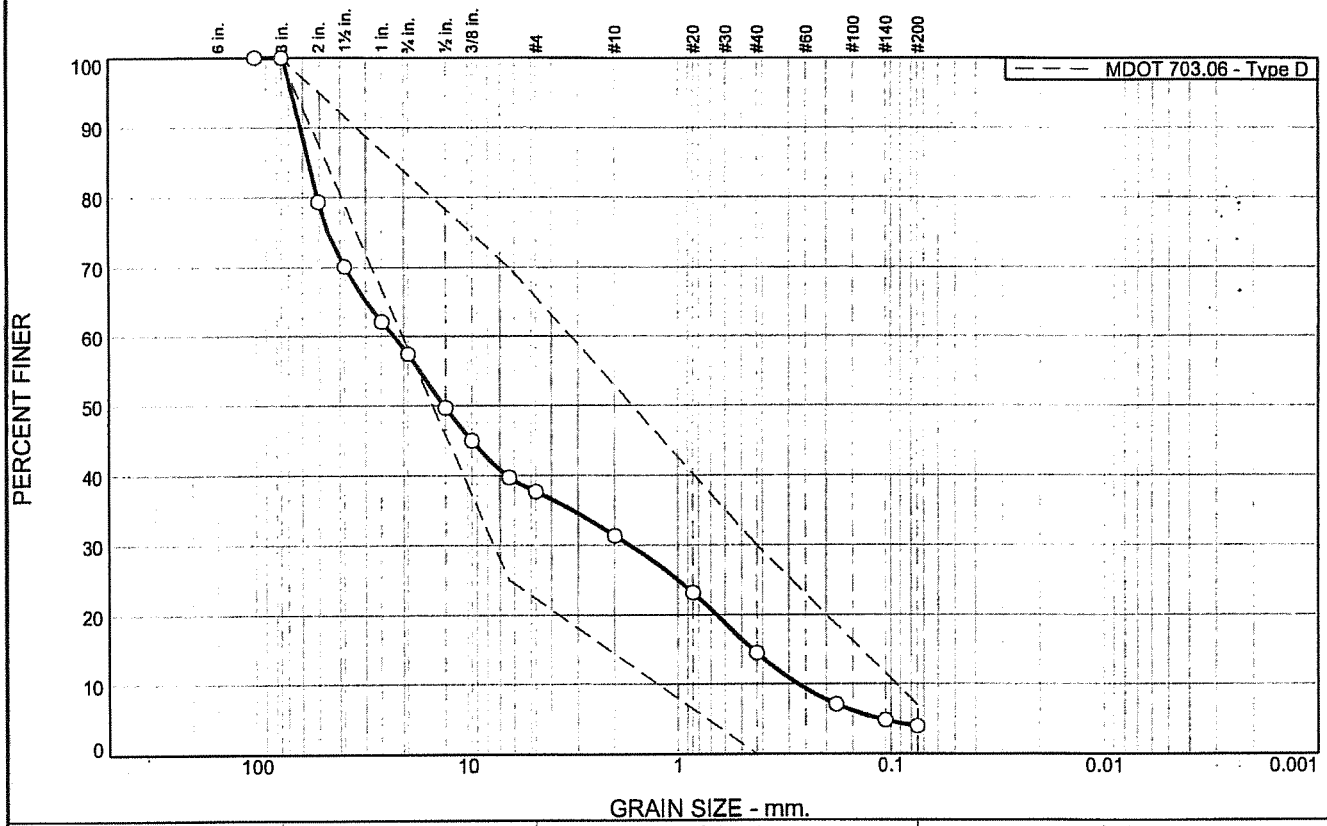
Sample No.: 12617 **Source of Sample:** R.J. Grondin **Date:** 11/5/2012
Location: Stockpile **Elev./Depth:**

R.W. Gillespie & Associates, Inc.
Saco, Maine

Client: The Village at Ocean Gate, LLC
Project: The Bay House
Project No: 1403-001 **Lab No.** 12617

Tested By: DCH **Checked By:** MTG MTG

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	42.6	19.7	6.3	16.9	10.6	3.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
4"	100.0		
3"	100.0	100.0 - 100.0	
2"	79.4		
1 1/2"	70.1		
1"	62.2		
3/4"	57.4		
1/2"	49.7		
3/8"	45.0		
1/4"	39.7	25.0 - 70.0	
#4	37.7		
#10	31.4		
#20	23.2		
#40	14.5	0.0 - 30.0	
#80	7.1		
#140	4.8		
#200	3.9	0.0 - 7.0	

* MDOT 703.06 - Type D (Station 02200, 2.01, B.1)

Soil Description

4" Minus - poorly graded gravel with sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 56.3597 D_{60}= 22.2318 D_{50}= 12.8966
D_{30}= 1.7015 D_{15}= 0.4441 D_{10}= 0.2720
C_u= 81.72 C_c= 0.48

Classification

USCS= GP AASHTO=

Remarks

Moisture Content: 3.6%

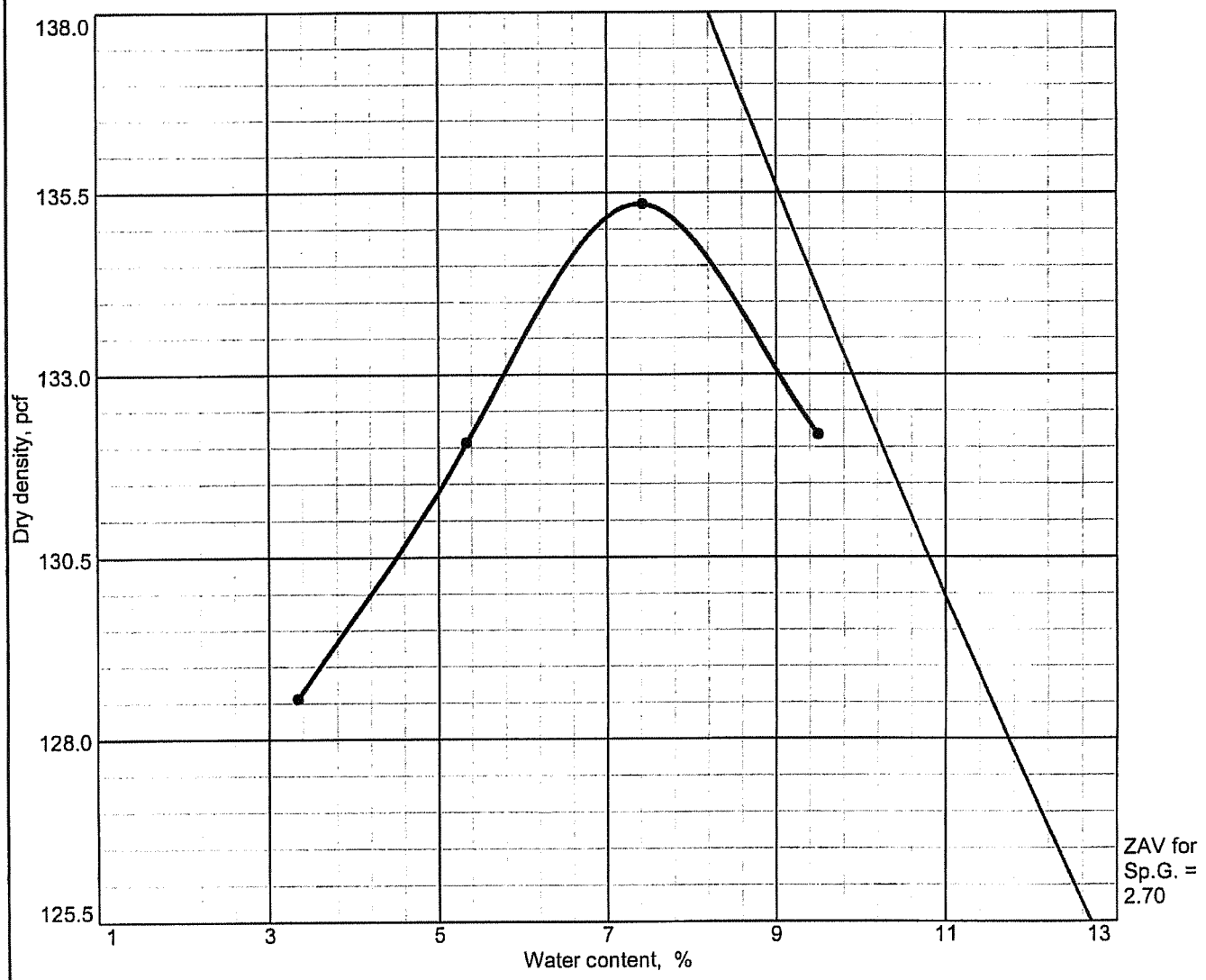
Sample No.: 12617 **Source of Sample:** R.J. Grondin **Date:** 11/5/2012
Location: Stockpile **Elev./Depth:**

R.W. Gillespie & Associates, Inc.
Saco, Maine

Client: The Village at Ocean Gate, LLC
Project: The Bay House
Project No: 1403-001 **Lab No.** 12617

Tested By: DCH **Checked By:** MTG MTG

Moisture-Density Test Report



Test specification: ASTM D 1557-09 Method C Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	GP		3.6%				42.6	3.9

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 135.3 pcf Optimum moisture = 7.4 %	4" Minus - poorly graded gravel with sand

Project No. 1403-001 **Client:** The Village at Ocean Gate, LLC

Project: The Bay House

● **Source:** R.J. Grondin **Sample No.:** 12617

R.W. Gillespie & Associates, Inc.

Saco, Maine

Remarks:

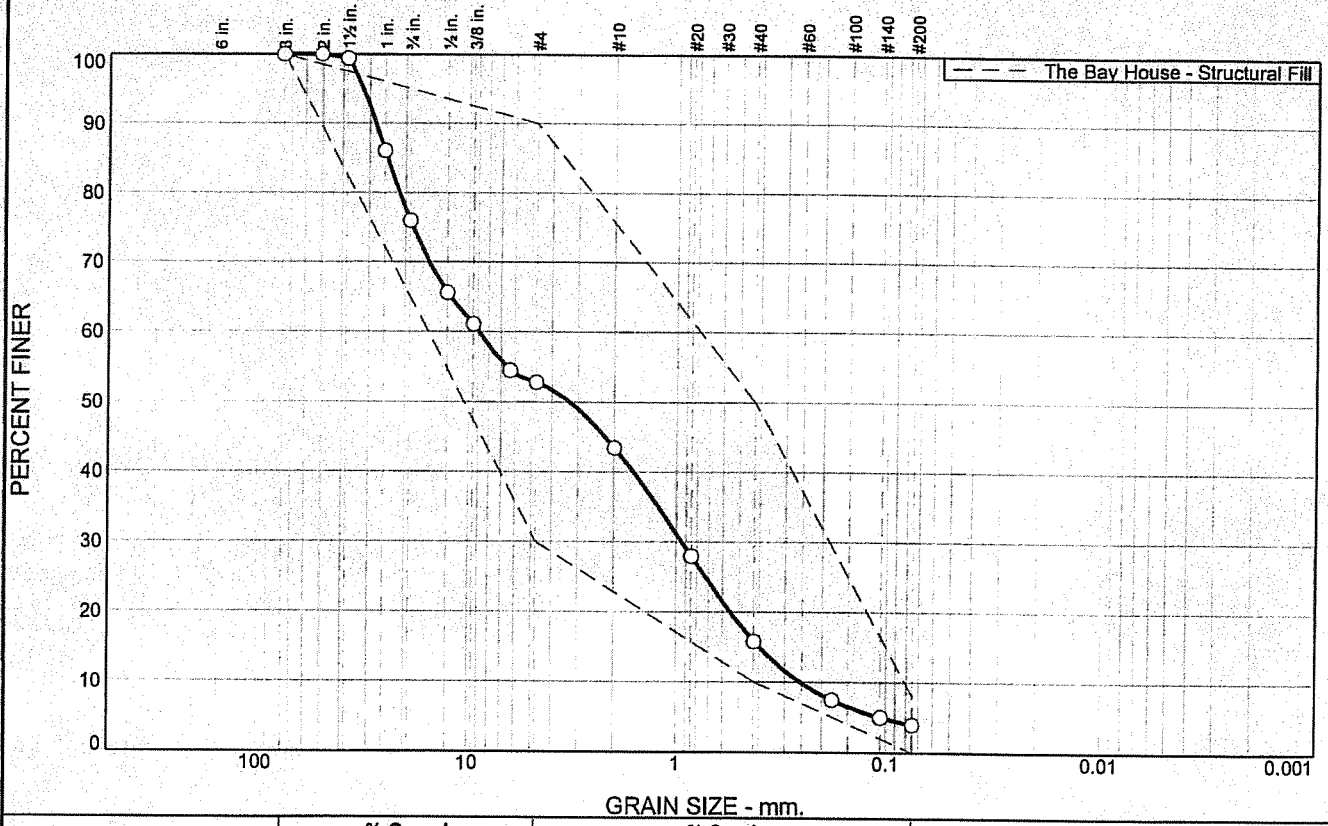
Tested By: DCH

More than 30% retained on the 3/4" screen, replacement method used.

MTB

Lab No. 12617

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	24.0	23.2	9.4	27.6	11.8	4.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3"	100.0	100.0 - 100.0	
2"	100.0		
1 1/2"	99.4		
1"	86.0		
3/4"	76.0		
1/2"	65.6		
3/8"	61.1		
1/4"	54.5		
#4	52.8	30.0 - 90.0	
#10	43.4		
#20	28.0		
#40	15.8	10.0 - 50.0	
#80	7.5		
#140	5.0		
#200	4.0	0.0 - 8.0	

* The Bay House - Structural Fill

Soil Description

Brandy Brook 1 1/2" Crush Gravel - poorly graded sand with gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 24.7181 D_{60}= 8.9371 D_{50}= 3.2839
D_{30}= 0.9443 D_{15}= 0.4023 D_{10}= 0.2557
C_u= 34.95 C_c= 0.39

Classification

USCS= SP AASHTO=

Remarks

Moisture Content: 2.5%

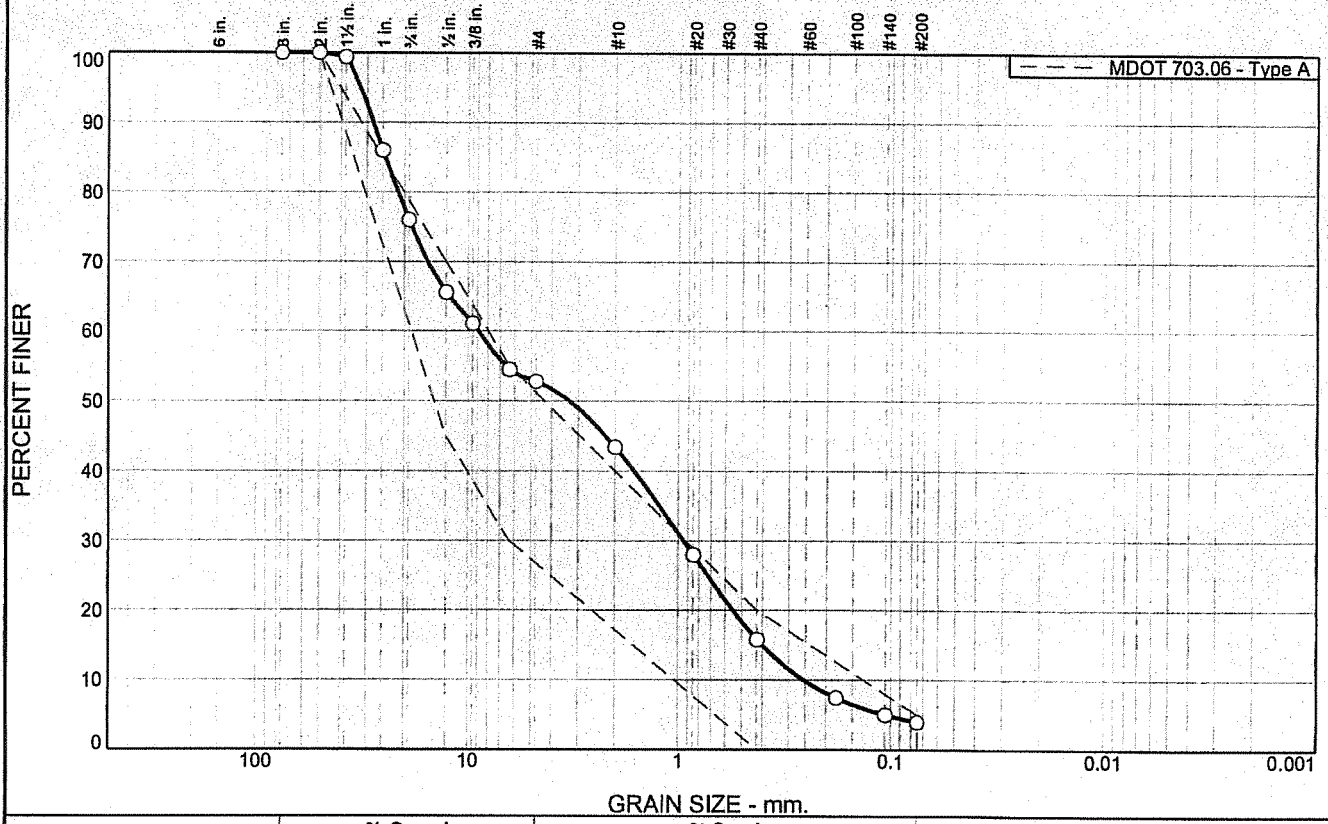
Sample No.: 12623 **Source of Sample:** R.J. Grondin **Date:** 11/20/2012
Location: Stockpile **Elev./Depth:**

R.W. Gillespie & Associates, Inc.
Saco, Maine

Client: The Village at Ocean Gate, LLC
Project: The Bay House
Project No: 1403-001 **Lab No.** 12623

Tested By: MJK/JJH **Checked By:** DCH CM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	24.0	23.2	9.4	27.6	11.8	4.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3"	100.0		
2"	100.0	100.0 - 100.0	
1 1/2"	99.4		
1"	86.0		
3/4"	76.0		
1/2"	65.6	45.0 - 70.0	
3/8"	61.1		
1/4"	54.5	30.0 - 55.0	
#4	52.8		
#10	43.4		
#20	28.0		
#40	15.8	0.0 - 20.0	
#80	7.5		
#140	5.0		
#200	4.0	0.0 - 5.0	

* MDOT 703.06 - Type A

Soil Description

Brandy Brook 1 1/2" Crush Gravel - poorly graded sand with gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 24.7181 D_{60}= 8.9371 D_{50}= 3.2839
D_{30}= 0.9443 D_{15}= 0.4023 D_{10}= 0.2557
C_u= 34.95 C_c= 0.39

Classification

USCS= SP AASHTO=

Remarks

Moisture Content: 2.5%

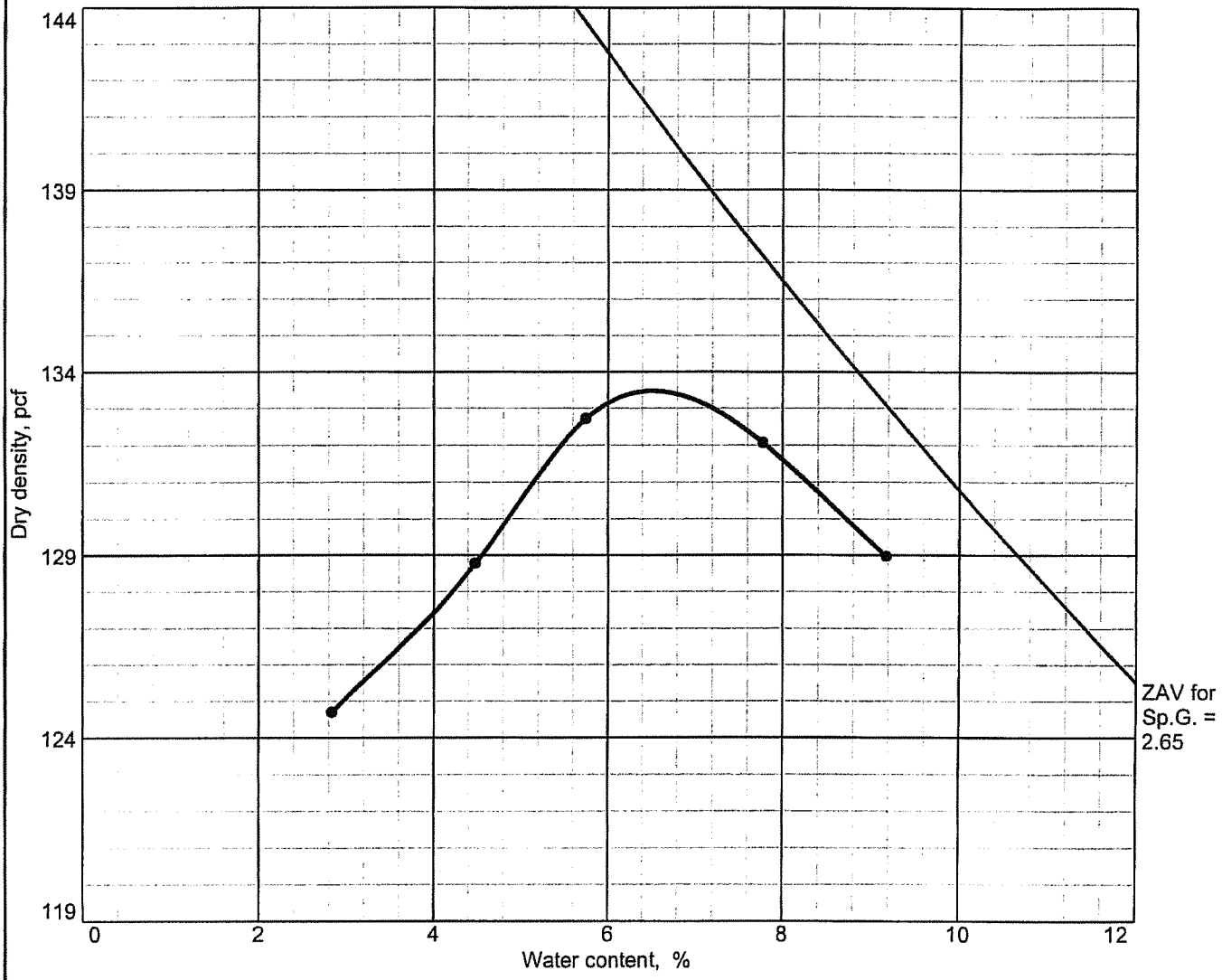
Sample No.: 12623 **Source of Sample:** R.J. Grondin **Date:** 11/20/2012
Location: Stockpile **Elev./Depth:**

R.W. Gillespie & Associates, Inc.
Saco, Maine

Client: The Village at Ocean Gate, LLC
Project: The Bay House
Project No: 1403-001 **Lab No.** 12623

Tested By: MJK/JJH **Checked By:** DCH DCH

Moisture-Density Test Report



Test specification: ASTM D 1557-09 Method C Modified
Oversize correction applied to each point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	SP		2.5%				24.0	4.0

ROCK CORRECTED TEST RESULTS

Maximum dry density = 133.5 pcf

Optimum moisture = 6.5 %

MATERIAL DESCRIPTION

Brandy Brook 1 1/2" Crush Gravel - poorly graded sand with gravel

Project No. 1403-001 **Client:** The Village at Ocean Gate, LLC

Project: The Bay House

● **Source:** R.J. Grondin **Sample No.:** 12623

Remarks:

Tested By: MJK/DCH

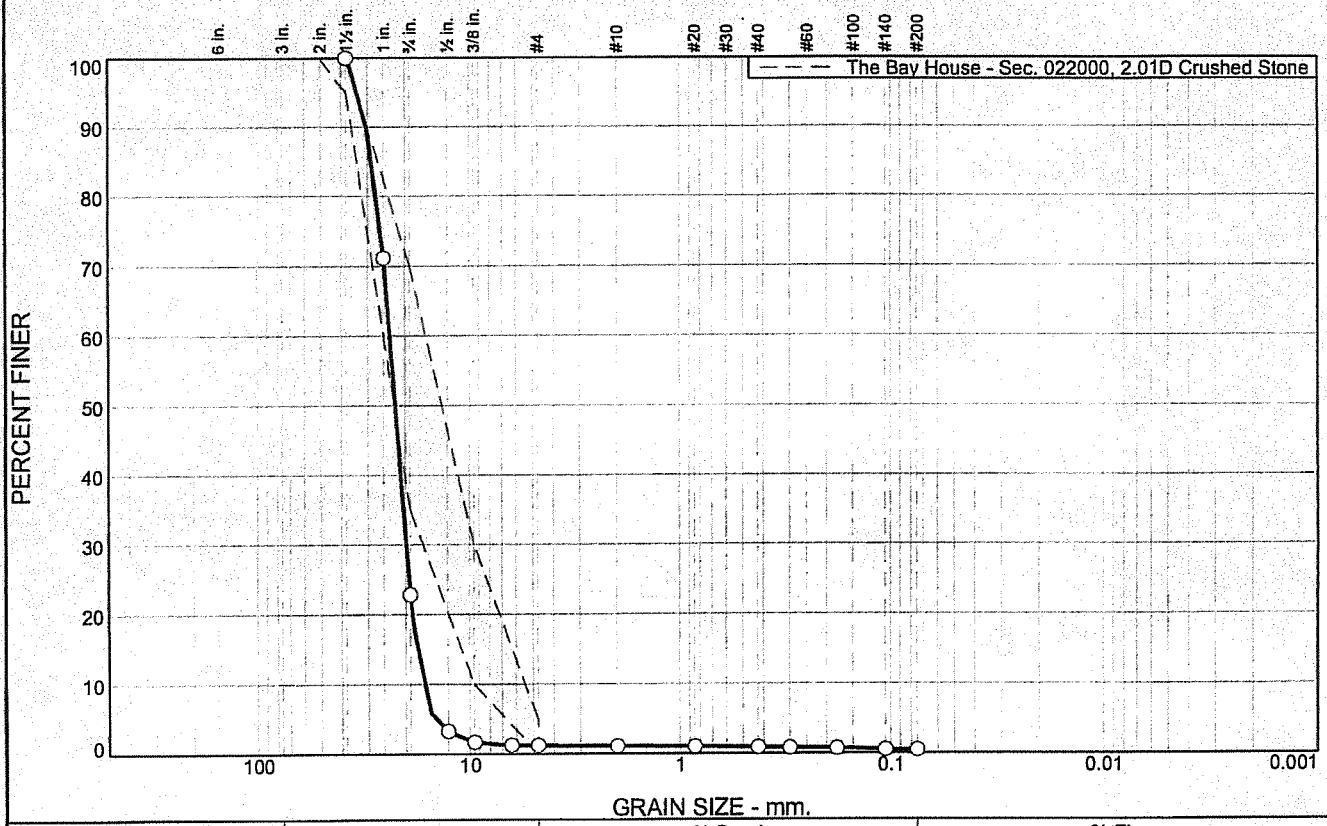
R.W. Gillespie & Associates, Inc.

Saco, Maine

MTG

Lab No. 12623

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	77.2	21.6	0.1	0.2	0.4	0.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100.0	95.0 - 100.0	
1"	71.2		
3/4"	22.8	35.0 - 70.0	X
1/2"	3.3		
3/8"	1.7	10.0 - 30.0	X
1/4"	1.2		
#4	1.2	0.0 - 5.0	
#10	1.1		
#20	1.0		
#40	0.9		
#50	0.8		
#80	0.7		
#140	0.5		
#200	0.5		

* The Bay House - Sec. 022000, 2.01D Crushed Stone

Soil Description

Beech Ridge 1 1/2" Crush Stone

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 28.6168 D_{60}= 23.7021 D_{50}= 22.4158
D_{30}= 20.0012 D_{15}= 17.7759 D_{10}= 16.6665
C_u= 1.42 C_c= 1.01

Classification

USCS= GP AASHTO=

Remarks

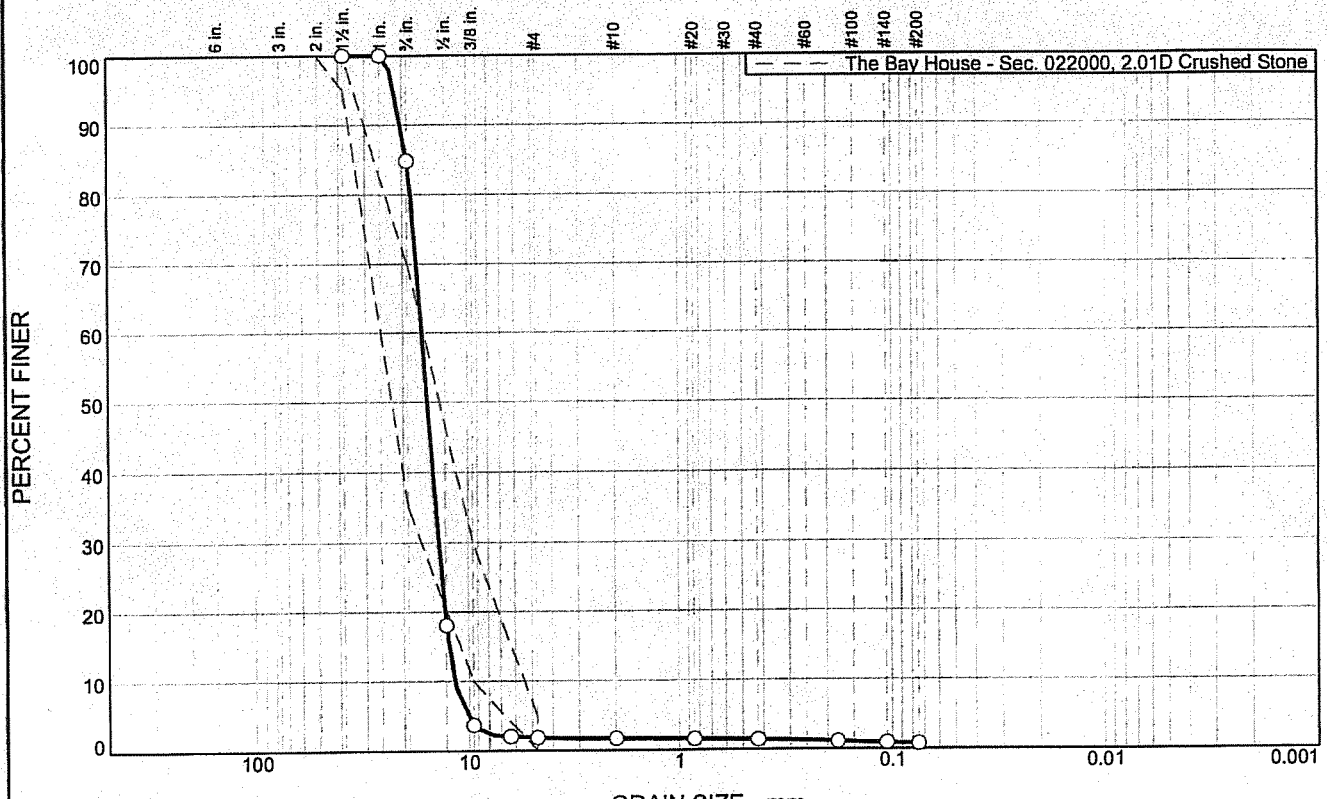
Sample No.: 12624 **Source of Sample:** R.J. Grondin **Date:** 11/20/2012
Location: Stockpile **Elev./Depth:**

R.W. Gillespie & Associates, Inc.
Saco, Maine

Client: The Village at Ocean Gate, LLC
Project: The Bay House
Project No: 1403-001 **Lab No.** 12624

Tested By: MJK/JJH **Checked By:** DCH DCH

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	15.1	83.0	0.2	0.3	0.7	0.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100.0	95.0 - 100.0	
1"	100.0		
3/4"	84.9	35.0 - 70.0	X
1/2"	18.0		
3/8"	3.7	10.0 - 30.0	X
1/4"	2.0		
#4	1.9	0.0 - 5.0	
#10	1.7		
#20	1.6		
#40	1.4		
#80	1.1		
#140	0.9		
#200	0.7		

* The Bay House - Sec. 022000, 2.01D Crushed Stone

Soil Description

Brandy Brook 3/4" Crush Stone

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 19.0709 D_{60}= 16.2963 D_{50}= 15.4464
D_{30}= 13.8123 D_{15}= 12.3514 D_{10}= 11.6241
C_u= 1.40 C_c= 1.01

Classification

USCS= GP AASHTO=

Remarks

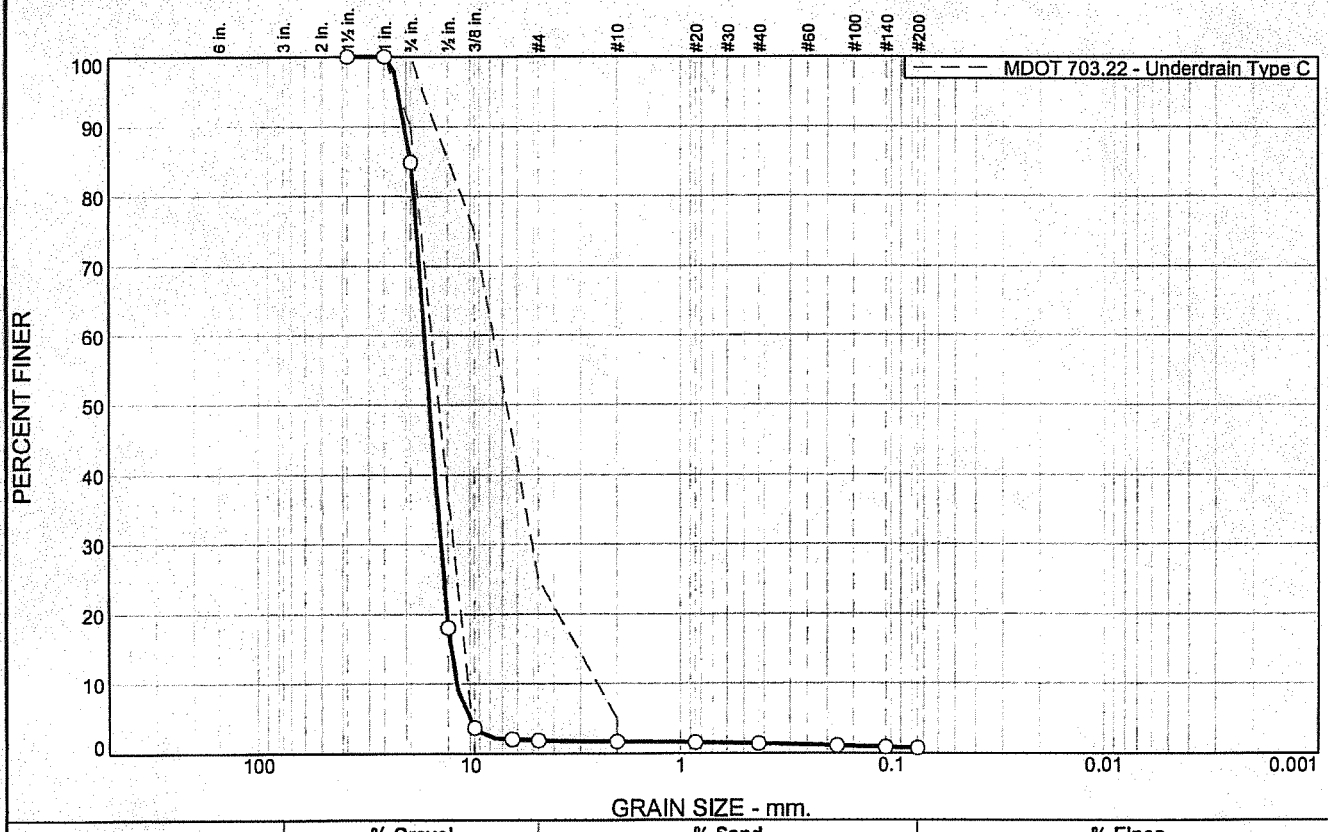
Sample No.: 12625 **Source of Sample:** R.J. Grondin **Date:** 11/20/2012
Location: Stockpile **Elev./Depth:**

R.W. Gillespie & Associates, Inc.
Saco, Maine

Client: The Village at Ocean Gate, LLC
Project: The Bay House
Project No: 1403-001 **Lab No.** 12625

Tested By: MJK/JJH **Checked By:** DCH

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	15.1	83.0	0.2	0.3	0.7	0.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100.0		
1"	100.0	100.0 - 100.0	
3/4"	84.9	90.0 - 100.0	X
1/2"	18.0		
3/8"	3.7	0.0 - 75.0	
1/4"	2.0		
#4	1.9	0.0 - 25.0	
#10	1.7	0.0 - 5.0	
#20	1.6		
#40	1.4		
#80	1.1		
#140	0.9		
#200	0.7		

* MDOT 703.22 - Underdrain Type C

Soil Description

Brandy Brook 3/4" Crush Stone

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 19.0709 D_{60}= 16.2963 D_{50}= 15.4464
D_{30}= 13.8123 D_{15}= 12.3514 D_{10}= 11.6241
C_u= 1.40 C_c= 1.01

Classification

USCS= GP AASHTO=

Remarks

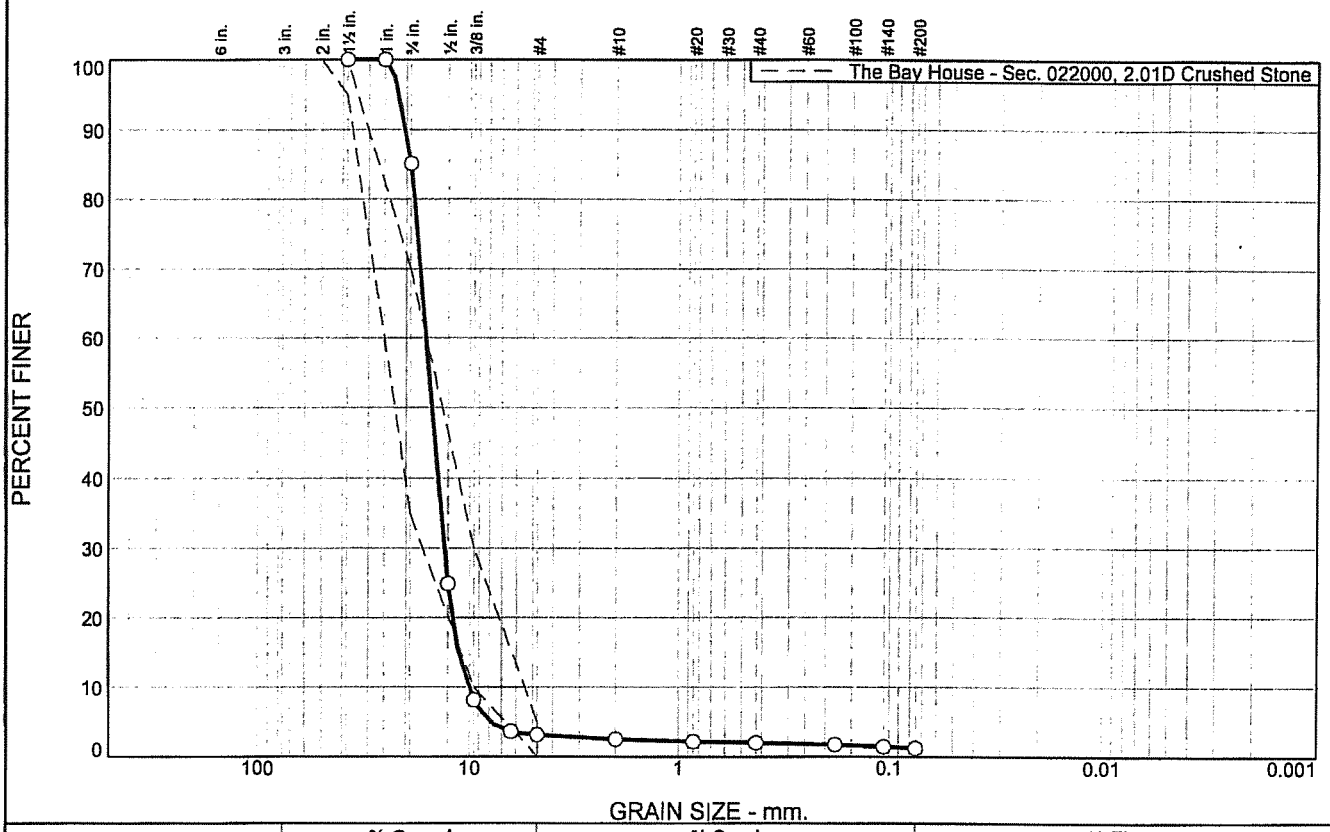
Sample No.: 12625 **Source of Sample:** R.J. Grondin **Date:** 11/20/2012
Location: Stockpile **Elev./Depth:**

R.W. Gillespie & Associates, Inc.
Saco, Maine

Client: The Village at Ocean Gate, LLC
Project: The Bay House
Project No: 1403-001 **Lab No.** 12625

Tested By: MJK/JJH **Checked By:** DCH DCH

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	14.8	82.1	0.6	0.5	0.8	1.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100.0	95.0 - 100.0	
1"	100.0		
3/4"	85.2	35.0 - 70.0	X
1/2"	24.9		
3/8"	8.1	10.0 - 30.0	X
1/4"	3.6		
#4	3.1	0.0 - 5.0	
#10	2.5		
#20	2.2		
#40	2.0		
#80	1.7		
#140	1.4		
#200	1.2		

* The Bay House - Sec. 022000, 2.01D Crushed Stone

Soil Description

Brandy Brook Crush Stone

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 19.0184 D_{60}= 16.0052 D_{50}= 15.0734
D_{30}= 13.2336 D_{15}= 11.3299 D_{10}= 10.1777
C_u= 1.57 C_c= 1.08

Classification

USCS= GP AASHTO=

Remarks

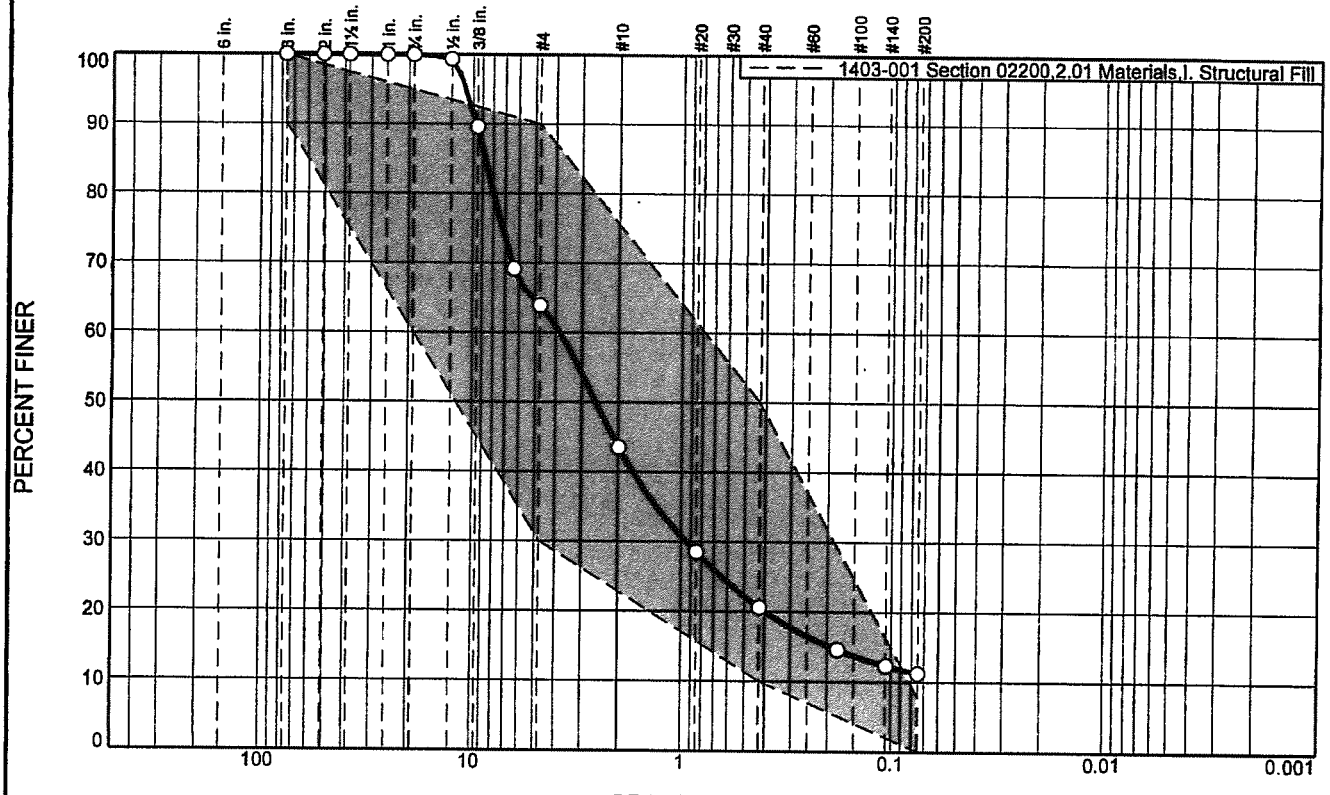
Sample No.: 12653 **Source of Sample:** R.J. Grondin **Date:** 12/14/2012
Location: Stockpile **Elev./Depth:**

R.W. Gillespie & Associates, Inc.
Saco, Maine

Client: The Village at Ocean Gate, LLC
Project: The Bay House
Project No: 1403-001 **Lab No.** 12653

Tested By: DCH/MCS **Checked By:** MTG MTG

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	36.1	20.4	22.9	9.4	11.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3"	100.0	90.0 - 100.0	
2"	100.0		
1 1/2"	100.0		
1"	100.0		
3/4"	100.0		
1/2"	99.4		
3/8"	89.6		
1/4"	69.2		
#4	63.9	30.0 - 90.0	
#10	43.5		
#20	28.5		
#40	20.6	10.0 - 50.0	
#80	14.6		
#140	12.3		
#200	11.2	0.0 - 8.0	X

* 1403-001 Section 02200,2.01 Materials,I. Structural Fill

Soil Description

Stone dust - poorly graded sand with silt and gravel

Atterberg Limits

PL= np LL= nv PI= np

Coefficients

D_{85}= 8.7247 D_{60}= 3.8280 D_{50}= 2.5707
D_{30}= 0.9465 D_{15}= 0.1934 D_{10}=
C_u= C_c=

Classification

USCS= SP-SM AASHTO= A-1-a

Remarks

Moisture Content 0.2%

Sample No.: 12680 **Source of Sample:** Maietta - Baldwin **Date:** 3/8/12
Location: Stockpile **Elev./Depth:**

R.W. Gillespie & Associates, Inc.
Saco, Maine

Client: The Village at Ocean Gate, LLC
Project: The Bay House
Project No: 1403-001 **Lab No.** 12680

Tested By: GSM **Checked By:** MTG MTG

R. W. Gillespie & Associates, Inc.
86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008
200 Int'l Drive, Suite 170, Portsmouth, NH 03801 603-427-0244

LETTER OF TRANSMITTAL

Date: May 01, 2013	Project No.: 1403-001
Attention: Marc Gagnon (mgagnon@landmarccorp.com)	
Re: Laboratory Testing The Bay House Portland, Maine	

The Village at Ocean Gate, LLC care of Landmarc Construction

415 Congress Street, Suite 202

Portland, Maine 04112

We are sending you attached Laboratory Test Results.

Laboratory No. (s)	Test (s) Performed
12686	Washed Gradation, MD
12724	Washed Gradation, MD

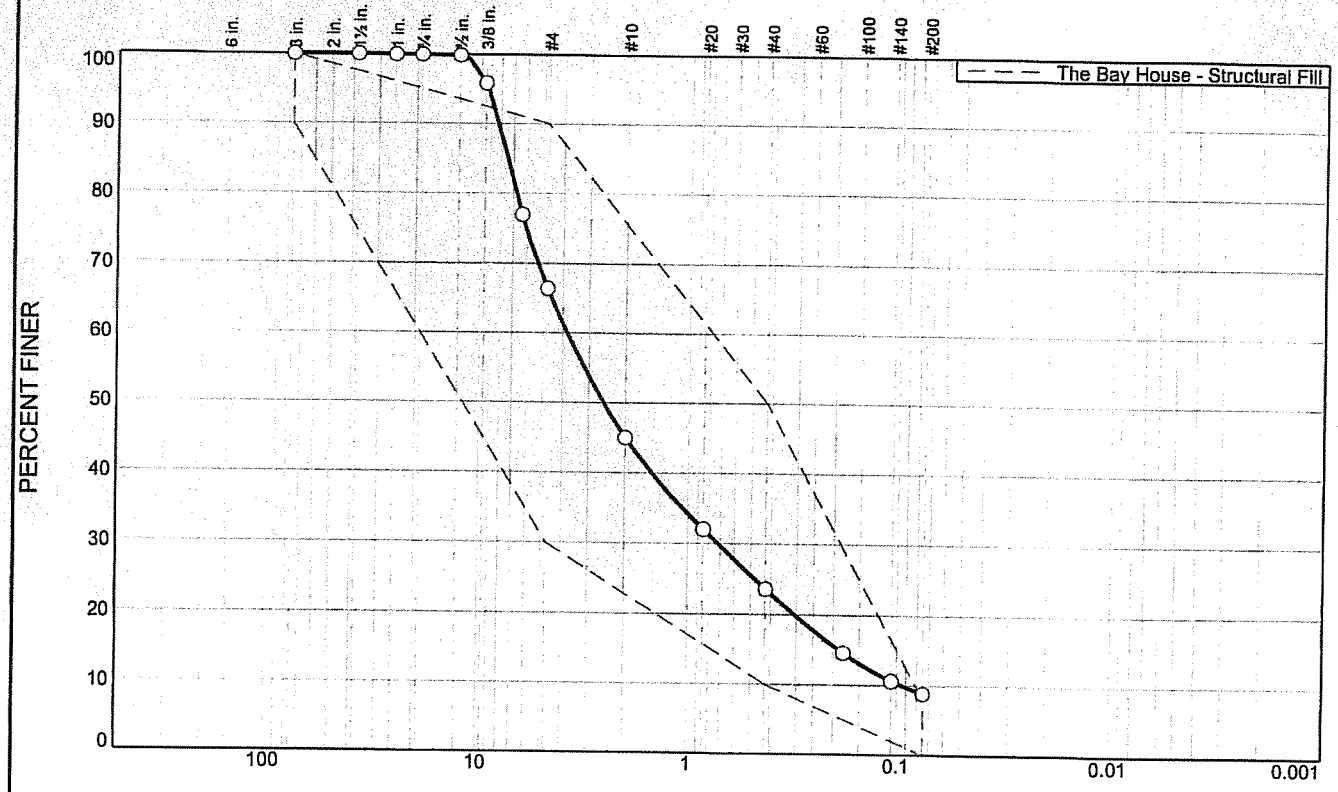
Attached is sample 12686 gradation and proctor (MD). It is our understanding that Sebago Technics approved the stone dust material for use as structural fill foundation backfill provided another sample is tested as a check. Sample 12724 gradation and proctor is the check sample. If you have any questions, please contact me.

Copy to:
Bob Grzyb (bgrzyb@metriccorp.com)
Craig Babbidge (craigbabbidge@maietta.com)
OWENS McCULLOUGH (OMCCULLOUGH@SEBAGOTECHNICS.COM)

Signed: Katrina B. Newton

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

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.1	33.5	21.4	21.4	14.8	8.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3"	100.0	90.0 - 100.0	
1 1/2"	100.0		
1"	99.9		
3/4"	99.9		
1/2"	99.8		
3/8"	95.8		
1/4"	77.0		
#4	66.4	30.0 - 90.0	
#10	45.0		
#20	32.0		
#40	23.6	10.0 - 50.0	
#80	14.6		
#140	10.6		
#200	8.8	0.0 - 8.0	X

* The Bay House - Structural Fill

Soil Description

Stone Dust (Resample) - well-graded sand with silt and gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 7.4563 D_{60}= 3.8145 D_{50}= 2.5517
D_{30}= 0.7229 D_{15}= 0.1889 D_{10}= 0.0951
C_u= 40.11 C_c= 1.44

Classification

USCS= SW-SM AASHTO= A-1-a

Remarks

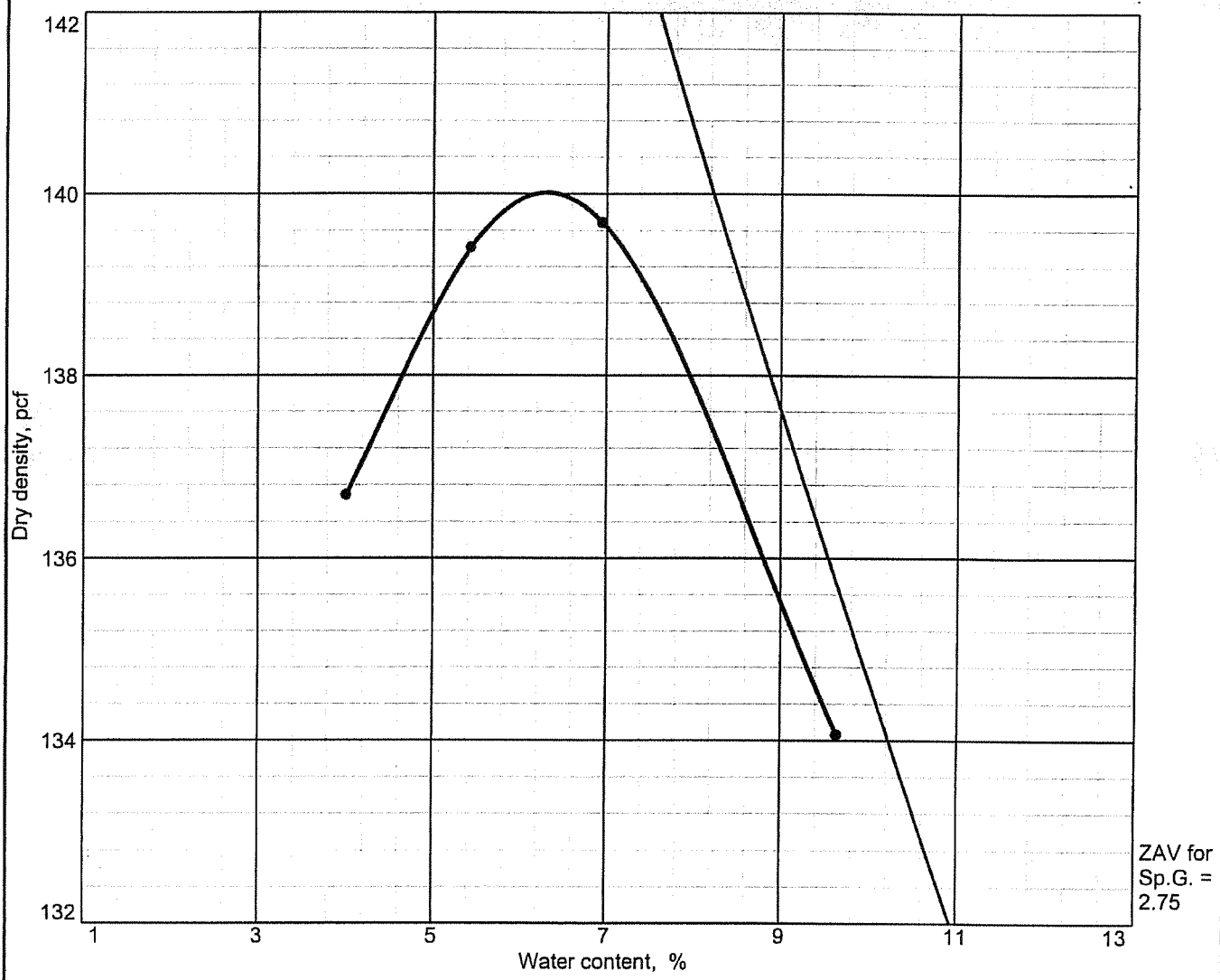
Sample No.: 12686 **Source of Sample:** Maietta - Baldwin **Date:** 3/25/2013
Location: Stockpile **Elev./Depth:**

R.W. Gillespie & Associates, Inc.
Saco, Maine

Client: The Village at Ocean Gate, LLC
Project: The Bay House
Project No: 1403-001 **Lab No.** 12686

Tested By: DCH **Checked By:** MTG

Moisture-Density Test Report



Test specification: ASTM D 1557-09 Method B Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	SW-SM	A-1-a	0.7%				4.2	8.8

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 140.0 pcf Optimum moisture = 6.3 %	Stone Dust (Resample) - well-graded sand with silt and gravel

Project No. 1403-001 **Client:** The Village at Ocean Gate, LLC

Project: The Bay House

● **Source:** Maietta - Baldwin **Sample No.:** 12686

R.W. Gillespie & Associates, Inc.

Saco, Maine

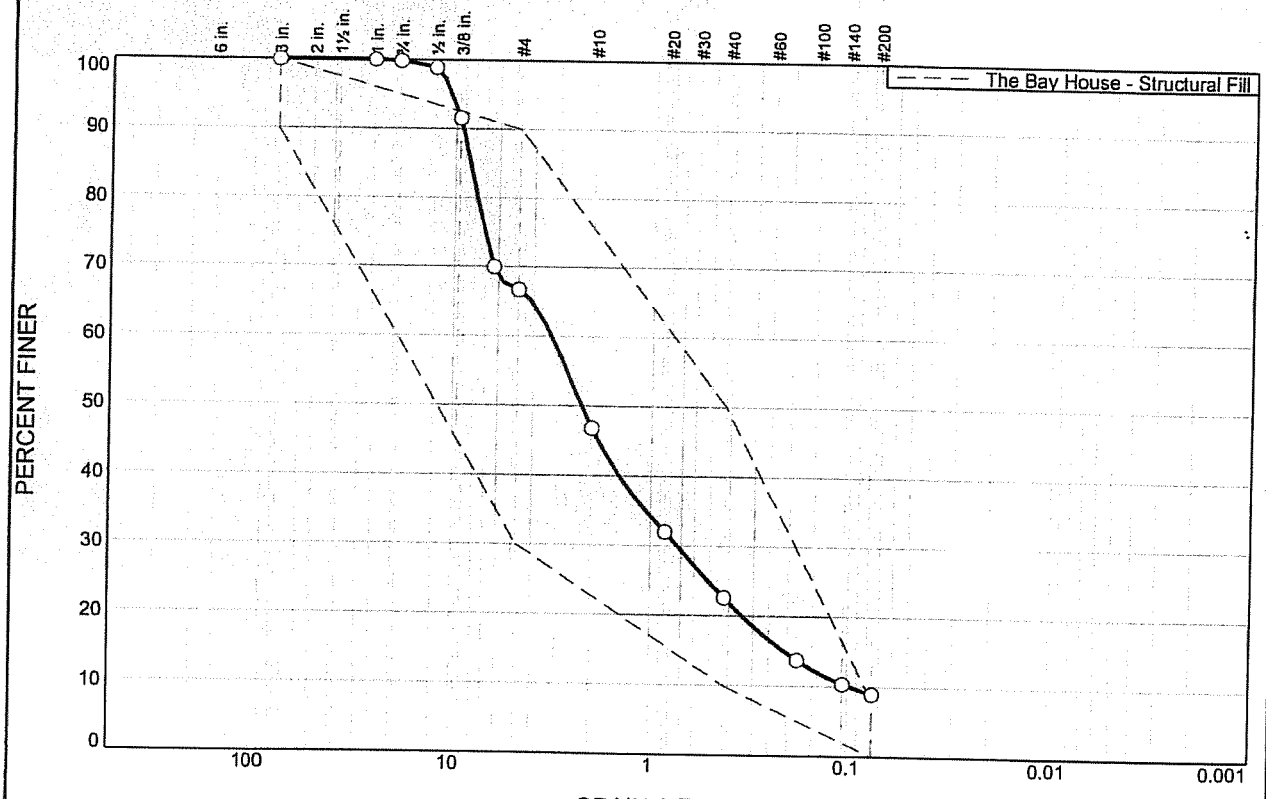
Remarks:

Tested By: GSM/DCH

MTC

Lab No. 12686

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.2	33.1	19.9	24.2	13.6	9.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3"	100.0	90.0 - 100.0	
1"	100.0		
3/4"	99.8		
1/2"	98.9		
3/8"	91.6		
1/4"	70.0		
#4	66.7	30.0 - 90.0	
#10	46.8		
#20	32.0		
#40	22.6	10.0 - 50.0	
#80	13.7		
#140	10.4		
#200	9.0	0.0 - 8.0	X

* The Bay House - Structural Fill

Soil Description

Structural Fill - well-graded sand with silt and gravel
(STONE DUST - CHECK AFTER SAMPLE 12686)

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 8.4376 D_{60}= 3.2263 D_{50}= 2.2528
D_{30}= 0.7375 D_{15}= 0.2092 D_{10}= 0.0970
C_u= 33.25 C_c= 1.74

Classification

USCS= SW-SM AASHTO= A-1-a

Remarks

Moisture Content: 4.4%

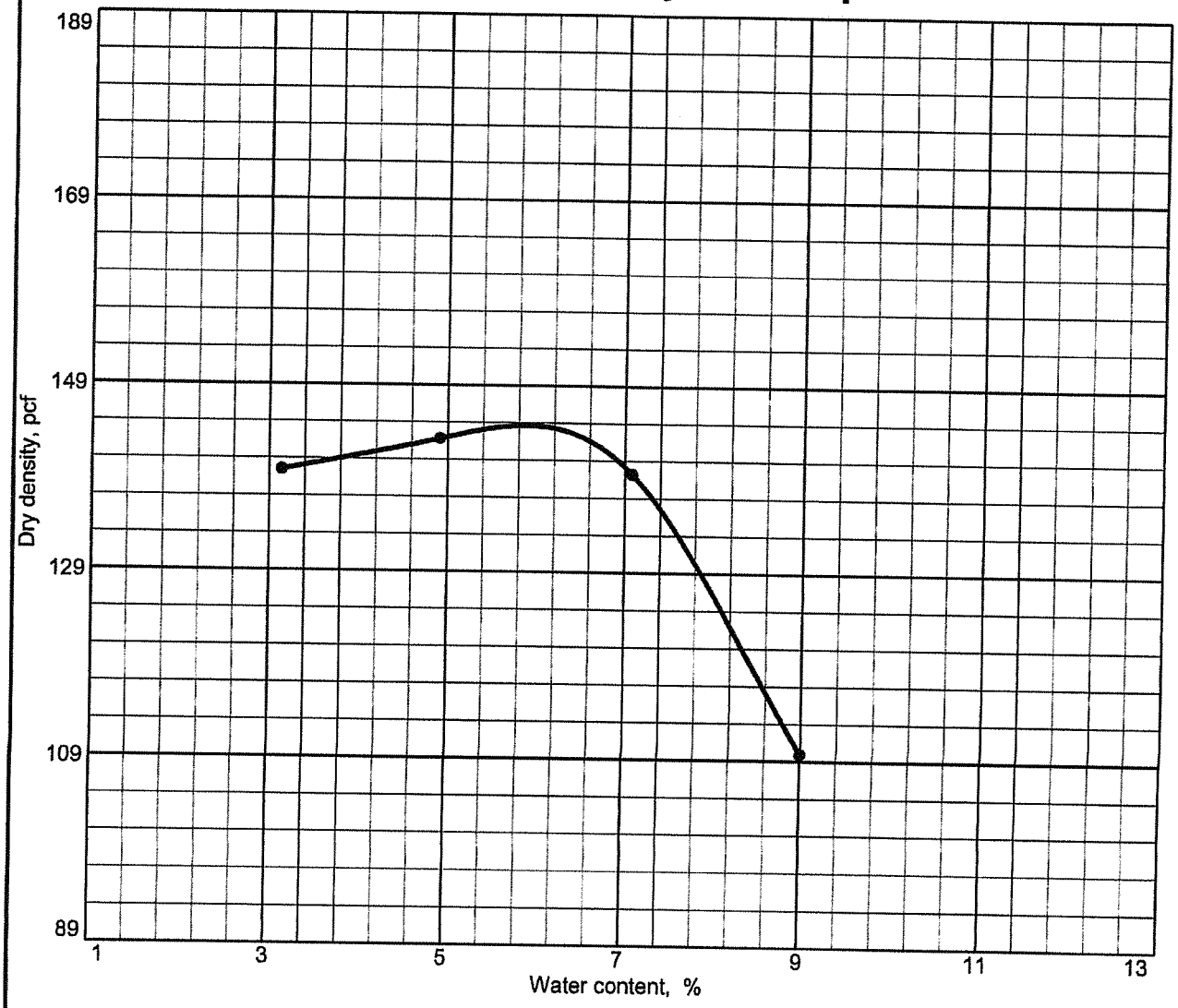
Sample No.: 12724 **Source of Sample:** Maietta - Baldwin **Date:** 4/30/2013
Location: Stockpile **Elev./Depth:**

R.W. Gillespie & Associates, Inc.
Saco, Maine

Client: The Village at Ocean Gate, LLC
Project: The Bay House
Project No: 1403-001 **Lab No.** 12724

Tested By: DCH **Checked By:** MTG

Moisture-Density Test Report



Test specification: ASTM D 1557-91 Procedure B Modified
Oversize correction applied to each point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	SW-SM	A-1-a	4.4%				8.4	9.0

ROCK CORRECTED TEST RESULTS

Maximum dry density = 144.7 pcf

Optimum moisture = 5.9 %

MATERIAL DESCRIPTION

Structural Fill - well-graded sand with silt and gravel
STONE DUST CREEK AFTER SAMPLE 12686

Project No. 1403-001 **Client:** The Village at Ocean Gate, LLC
Project: The Bay House

● **Source:** Maietta - Baldwin **Sample No.:** 12724

R.W. Gillespie & Associates, Inc.
Saco, Maine

Remarks:
Tested By: DCH

MTC

Lab No. 12724