Form # P 04 DISPLAY THIS CARD ON PRINCIP	AL FRONTAGE OF WORK
Please Read Application And	
Attached PERM	Permit Number: 081173
This is to certify that	OJR FA PERMITISSUED
has permission to Install An Elevator for Floor	
AT -159 STATE ST	
provided that the person or persons, rm or persons of the provisions of the Statutes of Fine and of the the construction, maintenance and up of buildings an this department.	in a septing this per <u>mit shall comply with all</u> ances of the City of Portland regulating d supprises, and of the application on file in
Apply to Public Works for street line and grade if nature of work requires such information.	A certificate of occupancy must be procured by owner before this build- ing or part thereof is occupied.
OTHER REQUIRED APPROVALS Fire Dept Health Dept Appeal Board Other	2/18/007
Department Name PENALTY FOR REMOVIN	IG THIS CARD

703, Fax: : TREET CO fame: e Construct :: State Street Elevator fo	(207) 874-871 NGREGATIO tion, Inc. Church - r Floors 1 - 3	6 Owner 159 S Contra P.O. Permit Addt FIRE	08-1173 r Address: STATE ST actor Address: Box 1264 Po t Type: INS ittoms - Const it Fee: \$2,820.00 DEPT:	ortland fifuture moreial Cost of Work: \$280,000 Approved	045 A02 Phone: 207-774-6. Phone 207741029 CEO District: .00 2 NSPECTION: Use Group: A * 3 TBC 200	6001 396 20ne: R-fc Type: 3A
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			STRIAN ACTI	VITIES DISTR	ICT (P A D)	\leftarrow
			Action: Approved Approved w/Conditions Denied			
			Signature: Date:			
		Zoning Approval				
Spe	cial Zone or Revie	ws	Zonin	ig Appeal	Historic Prese	rvation
nd 🗌 🗆 sł	noreland		Variance	•	Not in District	or Landmark
□ w	etland		Miscellar	neous	Does Not Requ	iire Review
d 🗌 🗆 Fl	ood Zone		Conditio	nal Use	Requires Revie	:w
. 🗌 Sı	Subdivision Interpretation		ation	Approved		
Si	te Plan		Approve	d	Approved w/C	onditions
Maj		art	Denied		Denied	
Date:	0 9/1	7/09	Date:		Date: 10 28 08	SEI+
	nd Spe nd Si w ad Fi Si Si Maj Date	Special Zone or Revie d Shoreland Wetland d Flood Zone Subdivision Site Plan Maj Minor MM Of WWCA Date All	Signat PEDE Action Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat Signat	Signature: Of Cece PEDESTRIAN ACTI Action: Approv Signature: Zoning Id Shoreland Variance Wetland Miscella Id Flood Zone Condition Subdivision Interpret Site Plan Approve Maj Minor MM Of Work Of Work Date:	Signature: OFCOCONSISTR Action: Approved Action: Approved Signature: Zoning Approval Id Shoreland Wetland Miscellaneous Id Flood Zone Subdivision Interpretation Site Plan Approved Maj Minor Minor MM Date: Approved	Signature: Signature: Signature: PEDESTRIAN ACTIVITIES DISTRICT (P.A.P.) Action: Approved Signature: Date: Not in District Not in District Wetland Miscellaneous Wetland Miscellaneous Subdivision Interpretation Site Plan Approved Maj Minor Mai Minor Mate: Affred Date: Date: Not Date: Not Date: Date: Date: Date: Date:

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

City of Portland, Ma	ine - Building or Use Permit	Permit No:	Date Applied For:	CBL:		
389 Congress Street, 04	101 Tel: (207) 874-8703, Fax: (207) 874-8716	08-1173	09/16/2008	045 A026001	
Location of Construction:	Owner Name:	_	Owner Address:		Phone:	
159 STATE ST	STATE STREET CON	NGREGATIO	159 STATE ST 207-774-6			
Business Name:	Contractor Name:		Contractor Address: Phone			
	Center Line Construct	ion, Inc.	P.O. Box 1264 Portland (207) 741-0			
Lessee/Buyer's Name	Phone:		Permit Type:		· · · · · · · · · · · · · · · · · · ·	
			Institutional			
Proposed Use:		Propose	d Project Description:			
Kenglous/State Street Ch	urch - Install An Elevator for Floors	I - 3 Instal	An Elevator for Flo	oors 1 - 3		
Dept: Historic Note:	Status: Approved with Condition	s Reviewer	Scott Hanson	Approval Da	nte: 10/28/2008 Ok to Issue: ♥	
1) Elevator over-run is to	o extend no further than 4' (four feet) above the para	apet on the lower roo	of.		
2) Exterior cladding of e	levator over-run is to be Firestone N	Aetal Products U	Jna-Clad in Medium	n Bronze color.		
Dept: Zoning Note:	Status: Approved with Condition	s Reviewer :	Marge Schmucka	Approval Da	nte: 09/17/2008 Ok to Issue:	
 ANY exterior work re District. 	equires a separate review and approv	al thru Historic	Preservation. This	property is located w	ithin an Historic	
 This permit is being a work. 	pproved on the basis of plans submi	tted. Any devia	tions shall require a	a separate approval b	efore starting that	
Dept: Building Note:	Status: Approved with Condition	s Reviewer :	Tammy Munson	Approval Da	nte: 02/18/2009 Ok to Issue: ₩	
1) Approval is required	from the State Fire Marshall's Office	e for elevator in	stallations.			
2) At the completion of	he work, a licensed engineer is req	uired to sign off	on the construction	and installation of t	he elevator.	
3) All penetratios throug or UL 1479, per IBC	h rated assemblies must be protected 2003 Section 712.	d by an approve	d firestop system in	stalled in accordance	e with ASTM 814	
 Separate permits are r approval as a part of t 	equired for any electrical, plumbing his process.	, HVAC or exh	aust systems. Separa	ate plans may need to	be submitted for	
Dept: Fire	Status: Approved with Condition	s Reviewer :		Approval Da	te: 10/28/2008	
Note:					Ok to Issue: 🔽	
1) Application requires S	State Fire Marshal approval.					

Comments:

10/7/2008-sth: Left third message for Sean Boyles requesting additional information necessary for determining whether or not the proposed project meets the HP standards. First message was left on 9-18, second message on 9-25. He replied to second message after business hours with part of the information requested.

10/28/2008-jmb: Received permit from Historic, routed to fire for review

11/4/2008-tmm: left message for construction co. - need to meet table 601 for ratings of elements based on type of construction as 3A.

-

2/18/2009-tmm: rec'd final drawing - project was on hold - ok to issue permit.

BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 or 874-8693 (ONLY) to schedule your inspections as agreed upon Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

X Footing/Building Location Inspection: Prior to pouring concrete or setting precast piers

- X Re-Bar Schedule Inspection: Prior to pouring concrete
- X Framing/Rough Plumbing/Electrical: Prior to Any Insulating or drywalling
- X Final inspection required at completion of work.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects <u>DO</u> require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

Date

Signature of Inspections Official

Signature of Applicant/Designee

	Schedule Inspe	ection	Add Find	Print Perm	it Print C of O	Print Insp	Invoicing	Taxes Due	Close
P	rmt	Text93	67	38	Cons	str Type	Num1	81173	
Permit Nbr	08-1173	Location	of Constructi	on 159	STATE ST		Appl. C	Date 09/16	6/2008
Status	Hold		Permit T	ype Institut	ional		issue [Date	
CBL	045 A026001		District N	br 2	Estimated Cost	\$280,000.0	DO Date Clo	sed	

Comment Date	Left message for construction as 3A.	co need to meet table 601 for ratin	gs of elemer	Delete Sav	of construction	n
	Name tmm	Follow Up Date		Comple	eted	
10/28/2008	Name jmb	-, routed to fire for review		Comple	eted	
10/07/2008	Left third message for Sean E the proposed project meets the replied to second message a	Boyles requesting additional informati ne HP standards. First message was fter business hours with part of the in	on necessar left on 9-18 formation rec	y for determining , second messag quested.	whether or not e on 9-25. He	t

CreatedBy Imd	CreateDate	09/17/2008	ModBy	tmm	ModDate	11/04/2008	
	Time	9:11 AM			Time	10:23 AM	

A LEVEL CALL

General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 159 STATE STREET, PORTMIND, ME						
Total Square Footage of Proposed Structure	Square Footage of Lot					
ff yz CPG		·				
Tax Assessor's Chart, Block & Lot	Owner: THE STATE STEERT CONGEREN	Trig felephone:				
Chart# Block# Lot#	Lot# [Chais] / 207- 774-6396					
045 A 026						
Lessee/Buyer's Name (If Applicable) Applicant name, address & telephone: Cost Of						
	SEAN Bights	Work: \$ 280,000				
	CENTER LINE CONSTRUCTION, INC.					
	Fee: \$					
PERTURNE ME MAN						
(217) 741-0240 C of O Fee: \$						
Current legal use (i.e. single family) CUNRCU						
If vacant, what was the previous use?		·.				
Proposed Specific use: ELEVATOR ~	3 floors SEP	_ <u>/</u>				
Is property part of a subdivision?	If yes, please name	<i>↓</i>				
Project description:						
	· · · · · · · · · · · · · · · · · · ·					
	1					
Contractor's name, address & telephone: 🔬	ER LINE CONSTRUCTION, INC.					
P.0	BOX 1264, FUETWAD, ME OVIC	<i>े ५</i>				
Who should we contact when the permit is read	14: SEAN BOYLES					
Mailing address:	Phone: 741-0390					
		}				

Please submit all of the information outlined in the Commercial Application Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at <u>www.portlandmaine.gov</u>, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the pamed property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit an any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: Date: 108 9/16

This is not a permit; you may not sommence ANY work until the permit is issued.

Building Inspections Division • 389 Congress Street • Portland, Maine 04101 • (207) 874-8703 • FACSIMILE (207) 874-8716 • TTY (207) 874-8936

09-16-'08 14:25 FROM-





390 County Rd Suite #2 Westbrook, Maine 04092

Tel: (207) 773-1276 Fax: (207) 772-1203

September 9, 2008

Mark Hall MC Hall 1039 Riverside St Portland, Maine 04103

Dear Mr. Hall;

Please find enclosed for your review and file, the bulk sampling results that were collected by Kyle Rickett, Maine D.E.P. inspector number AI-0349, at the wood yard located on Presumpscott St, Portland, Maine on August 29, 2008.

Four (4) Samples were collected and sent to EMSL in New Jersey where it was analyzed by Polarized Light Microscopy (PLM) (EPA test method #600/M4-82-020) for asbestos content.

All samples were found to contain NO asbestos

Some items that were discovered on site and are assumed to contain asbestos are as follows:

Circuit breakers in power panels within planer room

The State of Maine Department of Environmental Protection (DEP) considers a material to be an "asbestos containing material" when it is analyzed by PLM and found to contain greater than 1% asbestos

If you have any further questions or need additional information please feel free to contact me at (207)-773-1276.

Sincerely,

Self

Kyle Rickett Vice President

Enclosures

1

.



390 County Rd Suite #2 Westbrook, Maine 04092 Tel: (207) 773-1276 Fax: (207) 772-1203

Bulk Sample / Description / Location	Volume
Rear Storage Shed (covered roof)	1500
Tower Roof	
Shed next to Tower	
Sheetrock within tower	
	Bulk Sample / Description / Location Rear Storage Shed (covered roof) Tower Roof Shed next to Tower Sheetrock within tower

.



EMSL Analytical, Inc Revised 07/07/99

CHAIN OF CUSTODY

	æ	8		e
8	æ		 10	-23

EMSL Rep: Paul Nyfield

Third Party Billing requires written authorization from third party

EMSL-Bill to: ABAT52

Your Company Name: Abatement Professionals Corp 590 County Rd Suite #2 Westbrook, Maine 04092

Fax Results: Kyle Rickett Telephone #: 207-772-1203

Project

Name/Number: Presumpscott St



Purchase Order # 140

MATRIX				TURNAROUND			
🛛 Air	🗆 Soil	□ Micro-Vac	der his	🗆 6 Hrs	🗆 12 Hrs *	C I Day	
STREES -	Drinking Water		2 Days	(] 3 Days	0 4 Days	0 5 Days	
O Wipe	U Waste Water		6-10 Days				

Please call ahead to schedule TEM AIR, 3 hours, 6 hours, There is a premium charge for 3 hour TAT; call 1-800-220-3675 for price prior to sending

samples You will be usked to sign an authorization form for this service * 12 Hours must wrive by 11:00am Mon-Fri. Please refer to Price Quote

PCM- AIR	TEM-AIR	TEM-WATER
INIOSH 7400 (A) Issue 2: August 1994	AHERA 40 CFR, Part 763 Subpart	E 🗆 EPA 100.1
🗆 OSHA w/TWA	□ NIOSH 7402 Issue 2	EPA 100.2
□ Other:	🗆 EPA Level II	D NYS 198.2
<u>PLM-Bulk</u>	TEM-Bulk	TEM Micro Vac/wipe
KEPA000/R-93/HG-PerthilliPositive	Drop Mount (Qualitative)	□ ASTM D 5755-95
[] EPA Point Count 400	Chatfield SOP-1988-02	Wipe Qualitative
NY Stratified Point Count	🗍 TEM NOB (Gravimetric) NY 198.4	-
PLM NOB (Gravimetric) NYS 198.1	EMSL Standard Addition	XRD
I NIOSH 9002		Asbestos
EMSL Standard Addition	PLM Soil	Silica NIOSH 7500
SEM Air or Bulk	C EPA Protocol Qualitative	
Qualitative	EPA Protocol Quantitative	OTHER
Quantitative	EMSL MSD 9000 Method fibers/gram	0
Client Sample # (s) B-1-B-4		Fotal Sample #: 4

Relinguished:	Date:	Time:
Received:	Date:	_Time:
Relinquished:	Date:	_Time:
Received:	Date:	_Time:

09-16-'08 14:25 FROM-

ENGEN

EMSL Analytical, Inc.

107 Haddon Ave., Westmont, NJ 08108

Phone: (856) 858-4800 Fax: (856) 858-4960 Email: <u>westmontastiab@EMSL.com</u>

Attn: M M S V	(yle Rickett Abatement Professi 590 County Road Nestbrook, ME 0409	onals C 3 2	orp.	Custamer ID: Custamer PO: Received: EMSL Order:	ABAT52 140 08/28/08 10:30 AM 040822589
Fax: Project:	(207) 772-1203 PRESUMPSCOTT ST.	Phone:	(207) 773-1276	EMSL Proj: Analysis Date:	8/26/2008

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarízed Light Microscopy

			Asbestos			
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Туре
B-1 040822589-0001	REAR STORAGE SHED	White/Black Fibrous Heterogeneous	50%	Cellulose	50% Non-fibrous (other)	None Detected
B-2 040822589-0002	TOWER ROOF	Black Fibrous Heterogeneous	45%	Giass	55% Non-fibrous (other)	None Detected
B-3 040822589-0003	SHED NEXT TO TOWER	White/Black Fibrous Heterogeneous	50%	Cellulose	50% Non-fibrous (other)	None Detected
B-4 040822589-0004	WITHIN TOWER	Gray/Brown/White Fibrous Heterogeneous	45%	Cellulose	55% Non-fibrous (other)	None Detected

Report Date:

MAINE CERT. #BA-0100

Analyst(s)

Sept- Signt

8/28/2008

Delores Beard (4)

Stephen Siegel, CIH, Laboratory Manager or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the copress written approval of EMSL Analytical, Inc. EMSL's liability is timited to the cost of analysis. EMSL beers no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agancy of the U.S. Government.

Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

THIS IS THE LAST PAGE OF THE REPORT.

08/19/2008 13:25	2077410291	CENTER LINE CONST	PAGE Ø
	Certificate of	Design Applicati	on
From Designer:	LARRY A.	WICHROSKI,	OE.
Date:	SEPT. 10	2008	
Job Name:	STATE STREE	T CHINCH EUR	YATON ADDAL
Address of Construction:	159 STATE	STREET, PO	ATLAMO
Constr	2003 Internation function project was designed	onal Building Code to the building code criteris listed	below:
Building Code & Year 2003	<u>IBC</u> Use Group Classifi	cation (s)	
Type of Construction	TT A		
Will the Structure have a Fire sup	pression system in Accordance	with Section 903.3.1 of the 2003 IR	N/A_
Is the Structure mixed use?	1/A If yes, senarated or pr	in separated or non separated (sectio	n 302.3)
Supervisor elem Susan) X	A George chaired / Calls and	nost remained? (See Section 18/12 2);	N/A
Supervisory marin System:		por required (see section result)	
Design Losds on Construction Uniformly distributed floor live loads Floor Area Use	structural members (106.1 - 106.11) Documents (1603) ; (7603.11, 1807) Loads Showa	<u></u>	ir loads (1603.1.2, 1607.11) now loads (1603.7.3, 1608) d snow load, Pg (1608.2) 10 pef, flat-roof mow load gr
ELEVATON	100.0 PSF	<u> </u>	10 psf, snow exposure factor, G 10 psf, snow load importance fact
		N/A Roofish	ermal factor, (1608.4)
-*********************************		N/A Slopets	roof enowload, p(1608.4)
Wind loads (1603.1.4, 1609)		N/A Seismic	dening category (1616.3)
Design option utilize	ed (1609.1.1, 1609.6)	1/17 Basicise	innic force resisting system (1617.
Design option utilize	ed (1609.1.1, 1609.5) 109.3)	<u> </u>	isonic force resisting system (1617. Ic modification coefficient, _R , and
Design option utiliz Basic wind speed (10 Building category an	ed (1609.1.1, 1609.6) 109.3) 10 wind importance Factor.4, 1016: 1604.5, 1609.5)	<u></u>	innic force resisting system (1617. in modification coefficient, _{Ry} and on anaphification factor _{Cl} (1617.6.2
Design option utility Basic wind speed (1) Building category an Wind exposure category	ed (1609.1.1, 1609.6) 109.5) 10 wind importance Factor., table 1604.5, 1609.5) 1007 (1609.4)	Basic'se Respon Analysis	inguic force resisting system (1617.4 ne modification coefficient, _R and ne modification factor _G (1617.6.2 procedure (1816.6, 1617.5)
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Certificate of Design

Datc:

9/10/08 LARRY A. WICHROSKI, P.E.

From:

These plans and / or specifications covering construction work on:

ELEVATOR THE ADDITION OF A INTERIOR A STATE STREET CHUNCH, PORTLAND, ME.

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the 2003 International Building Code and local amendments.



161	1
Signature:	

STRUCTMAL ENGLINKEN Title:

ENGINEENING DESIGN PROF. Firm:

Address:

Phone:

FREEPONT, ME. 865-4643

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Accessibility Building Code Certificate

Designer:

Address of Project:

Nature of Project:

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The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.



Signature: RUCTURAL Title:

ENGHLERING DESKCK PROF. Firm:

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2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.1 General.

1704.1 General.

Where application is made for construction as described in this section, the owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more special inspectors to provide inspections during construction on the types of work listed under Section 1704. The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection. These inspections are in addition to the inspections specified in Section 109.

Exceptions:

- 1. Special inspections are not required for work of a minor nature or as warranted by conditions in the jurisdiction as approved by the building official.
- 2. Special inspections are not required for building components unless the design involves the practice of professional engineering or architecture as defined by applicable state statutes and regulations governing the professional registration and certification of engineers or architects.
- 3. Unless otherwise required by the building official, special inspections are not required for occupancies in Group R-3 as applicable in Section 101.2 and occupancies in Group U that are accessory to a residential occupancy including, but not limited to, those listed in Section 312.1.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.1 General. / 1704.1.1 Building permit requirement.

1704.1.1 Building permit requirement.

The permit applicant shall submit a statement of special inspections prepared by the registered design professional in responsible charge in accordance with Section 106.1 as a condition for permit issuance. This statement shall include a complete list of materials and work requiring special inspections by this section, the inspections to be performed and a list of the individuals, approved agencies or firms intended to be retained for conducting such inspections.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.1 General. / 1704.1.2 Report requirement.

1704.1.2 Report requirement.

Special inspectors shall keep records of inspections. The special inspector shall furnish inspection reports to the building official, and to the registered design professional in responsible charge. Reports shall indicate that work inspected was done in conformance to

approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the registered design professional in responsible charge prior to the completion of that phase of the work. A final report documenting required special inspections and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the permit applicant and the building official prior to the start of work.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.2 Inspection of fabricators.

1704.2 Inspection of fabricators.

Where fabrication of structural load-bearing members and assemblies is being performed on the premises of a fabricator's shop, special inspection of the fabricated items shall be required by this section and as required elsewhere in this code.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.2 Inspection of fabricators. / 1704.2.1 Fabrication and implementation procedures.

1704.2.1 Fabrication and implementation procedures.

The special inspector shall verify that the fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to approved construction documents and referenced standards. The special inspector shall review the procedures for completeness and adequacy relative to the code requirements for the fabricator's scope of work.

Exception: Special inspections as required by Section 1704.2 shall not be required where the fabricator is approved in accordance with Section 1704.2.2.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.2 Inspection of fabricators. / 1704.2.2 Fabricator approval.

1704.2.2 Fabricator approval.

Special inspections required by this code are not required where the work is done on the premises of a fabricator registered and approved to perform such work without special inspection. Approval shall be based upon review of the fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building official stating that the work was performed in accordance with the approved construction documents.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL

INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.3 Steel construction.

1704.3 Steel construction.

The special inspections for steel elements of buildings and structures shall be as required by Section 1704.3 and Table 1704.3. Where required, special inspection of steel shall also comply with Section 1715.

Exceptions:

- 1. Special inspection of the steel fabrication process shall not be required where the fabricator does not perform any welding, thermal cutting or heating operation of any kind as part of the fabrication process. In such cases, the fabricator shall be required to submit a detailed procedure for material control that demonstrates the fabricator's ability to maintain suitable records and procedures such that, at any time during the fabrication process, the material specification, grade and mill test reports for the main stress-carrying elements are capable of being determined.
- 2. The special inspector need not be continuously present during welding of the following items, provided the materials, welding procedures and qualifications of welders are verified prior to the start of the work; periodic inspections are made of the work in progress and a visual inspection of all welds is made prior to completion or prior to shipment of shop welding.
 - 2.1. Single-pass fillet welds not exceeding 5/16 inch (7.9 mm) in size.
 - 2.2. Floor and roof deck welding.
 - 2.3. Welded studs when used for structural diaphragm.
 - 2.4. Welded sheet steel for cold-formed steel framing members such as studs and joists.
 - 2.5. Welding of stairs and railing systems.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.3 Steel construction. / 1704.3.1 Welding.

1704.3.1 Welding.

Welding inspection shall be in compliance with AWS D1.1. The basis for welding inspector qualification shall be AWS D1.1.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.3 Steel construction. / 1704.3.2 Details.

1704.3.2 Details.

The special inspector shall perform an inspection of the steel frame to verify compliance with the details shown on the approved construction documents, such as bracing, stiffening, member locations and proper application of joint details at each connection.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.3 Steel construction. / 1704.3.3 High-strength bolts.

1704.3.3 High-strength bolts.

Installation of high-strength bolts shall be periodically inspected in accordance with AISC specifications.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.3 Steel construction. / 1704.3.3 High-strength bolts. / 1704.3.3.1 General.

1704.3.3.1 General.

While the work is in progress, the special inspector shall determine that the requirements for bolts, nuts, washers and paint; bolted parts and installation and tightening in such standards are met. For bolts requiring pretensioning, the special inspector shall observe the preinstallation testing and calibration procedures when such procedures are required by the installation method or by project plans or specifications; determine that all plies of connected materials have been drawn together and properly snugged and monitor the installation of bolts to verify that the selected procedure for installation is properly used to tighten bolts. For joints required to be tightened only to the snug-tight condition, the special inspector need only verify that the connected materials have been drawn together and properly snugged.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.3 Steel construction. / 1704.3.3 High-strength bolts. / 1704.3.3.2 Periodic monitoring.

1704.3.3.2 Periodic monitoring.

Monitoring of bolt installation for pretensioning is permitted to be performed on a periodic basis when using the turn-of-nut method with match marking techniques, the direct tension indicator method or the alternate design fastener (twist-off bolt) method. Joints designated as snug tight need be inspected only on a periodic basis.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.3 Steel construction. / TABLE 1704.3 REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

TABLE 1704.3 REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

Verification and inspection	CONTINUOUS	PERIODIC	Referenced standard*	IBC REFERENCE
1. Material verification of high-strength bolts, nuts and washers:				
a. Identification markings to conform to ASTM standards specified in the approved construction documents.		x	Applicable ASTM material specifications; AISC 335. Section A3.4; AISC LRPD, Section A3.3	
b. Manufacturer's certificate of compliance required.		x		
2. Inspection of high-strength bolting:				
a. Bearing-type connections.		Х		
b. Slip-critical connections.	X	X	ALSC LRFD Section M2.3	1704.3.3
3. Material verification of structural steel:				
 Identification markings to conform to ASTM standards specified in the approved construction documents. 			ASTMA 6 01ASTMA 568	1708.4
b. Manufacturers' certified mill test reports.		_	ASTM A 6 or ASTM A 568	
4. Material verification of weld filler materials:				
a. Identification markings to conform to AWS specification in the approved construction documents.			AISC, ASD, Section A3.6; AISC LRFD, Section A3.5	
b. Manufacturer's certificate of compliance required.		nanyajiyi	write	
5. Inspection of welding: a. Structural steel:				
1) Complete and partial penetration groove welds.	X			
2) Multipass fillet welds.	X			
3) Single-pass fillet welds > $\frac{5}{16}$	Х.		AWS D1.1	1704.3.1
4) Single-pass fillet welds $\leq \frac{5}{16}^{4}$		x		
5) Floor and deck welds.		X	AWS D1.3	
b. Reinforcing steel:		·		
 Verification of weldability of reinforcing steel other than ASTM A 706. 		x		
 Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement. 	X		AWS D1.4 ACI 318: 3.5.2	1903.5.2
3) Shear reinforcement.	X.			
4) Other reinforcing steel.		x		
Inspection of steel frame joint details for compliance with approved construction documents: a. Details such as bracing and stiffening.	-	x		1704.3.2
 b. Member locations. c. Application of joint details at each connection. 				a 1977, 244

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For SI: 1 Inch = 25.4 mm.

a. Where applicable, see also Section 1707.1, Special inspection for seismic resistance.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.3 Steel construction. / TABLE 1704.3 REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION / 1704.3.3.3 Continuous monitoring.

1704.3.3.3 Continuous monitoring.

Monitoring of bolt installation for pretensioning using the calibrated wrench method or the turn-of-nut method without matchmarking shall be performed on a continuous basis.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.4 Concrete construction.

1704.4 Concrete construction.

The special inspections and verifications for concrete construction shall be as required by this section and Table 1704.4.

Exception: Special inspections shall not be required for:

- 1. Isolated spread concrete footings of buildings three stories or less in height that are fully supported on earth or rock.
- 2. Continuous concrete footings supporting walls of buildings three stories or less in height that are fully supported on earth or rock where:
 - 2.1. The footings support walls of light frame construction;
 - 2.2. The footings are designed in accordance with Table 1805.4.2; or 2.3. The
 - structural design is based on a l_c no greater than 2,500 pounds per square inch (psi) (17.2 Mpa).
- 3. Nonstructural concrete slabs supported directly on the ground, including prestressed slabs on grade, where the effective prestress in the concrete is less than 150 psi (1.03 Mpa).
- 4. Concrete foundation walls constructed in accordance with Table 1805.5(1), 1805.5(2), 1805.5(3) or 1805.5(4).
- 5. Concrete patios, driveways and sidewalks, on grade.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.4 Concrete construction. / 1704.4.1 Materials.

1704.4.1 Materials.

In the absence of sufficient data or documentation providing evidence of conformance to puality standards for materials in Chapter 3 of ACI 318, the building official shall require

testing of materials in accordance with the appropriate standards and criteria for the material in Chapter 3 of ACI 318. Weld ability of reinforcement, except that which conforms toASTMA706, shall be determined in accordance with the requirements of Section 1903.5.2.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.4 Concrete construction. / TABLE 1704.4 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

TABLE 1704.4 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED Standard"	IBC REFERENCE
 Inspection of reinforcing steel, including prestressing tendons, and placement. 		X	ACI 31B: 3.5, 7, 1-7.7	1903.5, 1907.1, 1907.7, 1914.4
 Inspection of reinforcing steel welding in accordance with Table 1704.3. Item 5B. 			AWS D1.4 ACI 318: 3.5.2	1903.5.2
 Inspect bofts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased. 	X			1912.5
4. Verifying use of required design mix.	April 20	x	ACI 318: Ch. 4, 5.2-5,4	1904, 1905.2-1905.4. 1914.2, 1914.3
5. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	x		ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1905.6, 1914.10
 Inspection of concrete and shotcrete placement for proper application techniques. 	X	_	ACI 318: 5.9, 5.10	1905.9, 1905.10, 1914.6, 1914.7, 1914.8
 Inspection for maintenance of specified cuving temperature and techniques. 		X	ACI 318: 5.11-5.13	1905.11, 1905.13, [9]4.9
 Inspection of prestressed concrete: Application of prestressing forces. Growting of bonded prestressing tendons in the seismic-force-resisting system. 	X X	-	AC1 318: 18.20 ACI 318: 18.18,4	_
2. Erection of precast concrete members.		X	ACI 318: Ch. 16	
O. Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs.		x	ACI 318: 6.2	1906.2

For SI: 1 lnch = 25.4 mm.

a. Where applicable, see also Section 1707.1, Special Inspection for seismic resistance.

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INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.5 Masonry construction.

1704.5 Masonry construction.

Masonry construction shall be inspected and evaluated in accordance with the requirements of this section, depending on the classification of the building or structure or nature of occupancy, as defined by this code (see Table 1604.5 and Section 1617.6).

Exception: Special inspections shall not be required for:

- 1. Empirically designed masonry, glass unit masonry or masonry veneer designed by Section 2109, 2110 or ACI 530/ASCE 5/TMS 402, Chapters 5, 6 or 7, when they are part of nonessential buildings (see Table 1604.5 and Section 1617.6).
- 2. Masonry foundation walls constructed in accordance with Table 1805.5(1), 1805.5(2), 1805.5(3) or 1805.5(4).

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.5 Masonry construction. / 1704.5.1 Empirically designed masonry, glass unit masonry and masonry veneer in essential facilities.

1704.5.1 Empirically designed masonry, glass unit masonry and masonry veneer in essential facilities.

The minimum inspection program for masonry designed by Chapter 14, Section 2109 or 2110, or by Chapter 5, 6 or 7 of ACI 530/ASCE 5/TMS 402, in essential facilities listed in Table 1604.5 and Section 1616.2, shall comply with Table 1704.5.1.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.5 Masonry construction. / 1704.5.2 Engineered masonry in nonessential facilities.

1704.5.2 Engineered masonry in nonessential facilities.

The minimum special inspection program for masonry designed by Section 2106, 2107 or 2108, or by chapters other than Chapters 5, 6 or 7 of ACI 530/ASCE 5/TMS 402, in nonessential facilities (see Table 1604.5 and Section 1617.6), shall comply with Table 1704.5.1.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.5 Masonry construction. / 1704.5.3 Engineered masonry in essential facilities.

1704.5.3 Engineered masonry in essential facilities.

The minimum special inspection program for masonry designed by Section 2106, 2107 or 2108, or by chapters other than Chapters 5, 6 or 7 of ACI 530/ASCE 5/TMS 402, in essential facilities (see Table 1604.5 and Section 1616.2), shall comply with Table 1704.5.3.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.6 Wood construction.

1704.6 Wood construction.

Special inspections of the fabrication process of prefabricated wood structural elements and assemblies shall be in accordance with Section 1704.2. Special inspections of site-built assemblies shall be in accordance with Section 1704.1.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.6 Wood construction. / 1704.6.1 Fabrication of high-load diaphragms.

1704.6.1 Fabrication of high-load diaphragms.

High-load diaphragms using values from Table 2306.3.2 shall be installed with special inspections as indicated in Section 1704.1. The special inspector shall inspect the wood structural panel sheathing to ascertain whether it is of the grade and thickness shown on the approved building plans. Additionally, the special inspector must verify the nominal size of framing members at adjoining panel edges, the nail or staple diameter and length, the number of fastener lines and that spacing between fasteners in each line and at edge margins agrees with the approved building plans.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.7 Soils.

1704.7 Solls.

The special inspections for existing site soil conditions, fill placement and load-bearing requirements shall follow Sections 1704.7.1 through 1704.7.3. The approved soils report, required by Section 1802.2, shall be used to determine compliance.

Exception: Special inspections not required during placement of fill less than 12 inches (305 mm) deep.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.7 Soils. / 1704.7.1 Site preparation.

1704.7.1 Site preparation.

Prior to placement of the prepared fill, the special inspector shall determine that the site has been prepared in accordance with the approved soils report.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.7 Soils. / 1704.7.2 During fill placement.

1704.7.2 During fill placement.

During placement and compaction of the fill material, the special inspector shall determine that the material being used and the maximum lift thickness comply with the approved report, as specified in Section 1803.5.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.7 Soils. / 1704.7.3 Evaluation of in-place density.

1704.7.3 Evaluation of in-place density.

The special inspector shall determine, at the approved frequency, that the in-place dry density of the compacted fill complies with the approved report.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.8 Pile foundations.

1704.8 Pile foundations.

A special inspector shall be present when pile foundations are being installed and during tests. The special inspector shall make and submit to the building official records of the installation of each pile and results of load tests. Records shall include the cutoff and tip elevation of each pile relative to a permanent reference.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.9 Pier foundations.

1704.9 Pier foundations.

Special inspection is required for pier foundations for buildings assigned to Seismic Design Category C, D, E or F in accordance with Section 1616.3.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.10 Wall panels and veneers.

1704.10 Wall panels and veneers.

Special inspection is required for exterior and interior architectural wall panels and the anchoring of veneers for buildings assigned to Seismic Design Category E or F in accordance with Section 1616.3. Special inspection of such masonry veneer shall be in accordance with Section 1704.5.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.11 Sprayed fire-resistant materials.

1704.11 Sprayed fire-resistant materials.

Special inspections for sprayed fire-resistant materials applied to structural elements and decks shall be in accordance with Sections 1704.11.1 through 1704.11.5. Special inspections shall be

based on the fire-resistance design as designated in the approved construction documents.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.11 Sprayed fire-resistant materials. / 1704.11.1 Structural member surface conditions.

1704.11.1 Structural member surface conditions.

The surfaces shall be prepared in accordance with the approved fire-resistance design and the approved manufacturer's written instructions. The prepared surface of structural members to be sprayed shall be inspected before the application of the sprayed fire-resistant material.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.11 Sprayed fire-resistant materials. / 1704.11.2 Application.

1704.11.2 Application.

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The substrate shall have a minimum ambient temperature before and after application as specified in the approved manufacturer's written instructions. The area for application shall be ventilated during and after application as required by the approved manufacturer's written instructions.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.11 Sprayed fire-resistant materials. / 1704.11.2 Application. / TABLE 1704.5.1 LEVEL 1 SPECIAL INSPECTION

> TABLE 1704.5.1 LEVEL 1 SPECIAL INSPECTION

	FREQUENCY	OF INSPECTION	RE RE	REFERENCE FOR CRITERIA		
INSPECTION TASK	Continuous during task listed	Periodically during task listed	iBC section	AC1 \$30/ASCE 5/TMS 402*	ACI 5 SOLI /ASCE &TTAS 502*	
 As masonry construction begins, the following shall be verified to ensure compliance: 						
a. Proportions of site-prepared mortar.		x			APL 2.6A	
b. Construction of mortae joints.	······	X			Art. 3.3B	
c. Location of reinforcement and connectors.		x			Art. 3.4, 3.6A	
d. Prestressing technique.	·	x		-	Art. 3.6B	
c. Grade and size of prestressing tendons and anchorages.		X	tin ti	WILLA	Art. 2.4B. 2.4H	
2. The inspection program shall verify:						
a. Size and location of structural elements.		X		Streams	Art. 3.3G	
b. Type, size and location of anchors, including other details of anchorage of masurry to structural members, frames or other construction.		X	-	Sec. 1.2.2(e), 2.1.4, 3.1.6		
c. Specified size, grade and type of reinforcement.		X		Sec. 1.12	Art. 2.4, 3.4	
d. Welding of reinforcing bars.	х			Sec. 2.1.10.6.2, 3.2.3.4(b)	·	
e. Protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).		X	Sec. 2104.3, 2104,4		Art. 1.8C. 1.8D	
f. Application and measurement of prestressing force.	_	X		. —	Art. 3.6B	
Prior to grouting, the following shall be verified to ensure compliance:						
a. Grout space is clean.		x			AIT, 3.2D	
b. Placement of reinforcement and connectors and prestressing tendons and anchorages.		X		Sec. 1.12	Art. 3.4	
 c. Proportions of site-prepared grout and prestressing grout for bonded tendons. 		X			Art. 2.6B	
d. Construction of mortar joints.		X			Art. 3.3B	
Grout placement shall be verified to ensure compliance with code and construction document provisions.	x				Art 3.5	
a. Grouting of prestressing bonded tendons.	x				Art. 3.6C	
Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	х		Sec. 2105.2.2, 2105.3	_	Art. 1.4	
Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.		X.			Art. 1.5	

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For SI: °C = (°F - 32)/1.8.

a. The specific standards referenced are those listed in Chapter 35.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.11 Sprayed fire-resistant materials. / 1704.11.3 Thickness.

1704.11.3 Thickness.

The average thickness of the sprayed fire-resistant materials applied to structural elements shall not be less than the thickness required by the approved fire-resistant design. Individual measured thickness, which exceeds the thickness specified in a design by 1/4 inch (6.4 mm) or more, shall be recorded as the thickness specified in the design plus 1/4 inch (6.4 mm). For design thicknesses 1 inch (25 mm) or greater, the minimum allowable individual thickness shall be the design thickness minus 1/4 inch (6.4 mm). For design thicknesses 1 inch (25 mm) or greater, the minimum allowable individual thickness shall be the design thickness minus 1/4 inch (6.4 mm). For design thicknesses less than 1 inch (25 mm), the minimum allowable individual thickness shall be the design thickness shall be determined in accordance with ASTM E 605. Samples of the sprayed fire-resistant materials shall be selected in accordance with Sections 1704.11.3.1 and 1704.11.3.2.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.11 Sprayed fire-resistant materials. / 1704.11.3 Thickness. / 1704.11.3.1 Floor, roof and wall assemblies.

1704.11.3.1 Floor, roof and wall assemblies.

The thickness of the sprayed fire-resistant material applied to floor, roof and wall assemblies shall be determined in accordance with ASTM E 605, taking the average of not less than four measurements for each 1,000 square feet (93m²) of the sprayed area on each floor or part thereof.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.11 Sprayed fire-resistant materials. / 1704.11.3 Thickness. / 1704.11.3.2 Structural framing members.

1704.11.3.2 Structural framing members.

The thickness of the sprayed fire-resistant material applied to structural members shall be determined in accordance with ASTM E 605. Thickness testing shall be performed on not less than 25 percent of the structural members on each floor.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.11 Sprayed fire-resistant materials. / 1704.11.3 Thickness. / TABLE 1704.5.3 LEVEL 2 SPECIAL INSPECTION

TABLE 1704.5.3 LEVEL 2 SPECIAL INSPECTION

	FREQUENCY OF INSPECTION		R	Ference for CRM	TERIA
. INSPECTION TASK	Continuous during task listed	Periodically during lask listed	IBC section	ACH 534) Agice 5/ Thig 402 ⁴	ACI SSIO.1/ ASPCHE 6/ THIS BOOM
 From the beginning of masonry construction, the following shall be verified to ensure compliance: 					
a. Proportions of site-prepared mortar, grout and prestressing grout for bonded tendors.		x			Art. 2.6A
 b. Placement of masonry units and construction of mortar joints. 		x			Art. 3,38
c. Placement of reinforcement, connectors and prestressing tendons and anchorages.	realized	x	without the second	Sec. 1.12	Art. 3.4, 3.6A
d. Grout space prior to grouting.	x				Art. 3,2D
e. Placement of grout.	X				Art. 3.5
f. Placement of prestressing grout.	X	_			Art. 3,60
2. The inspection program shall verify:					
a. Size and location of structural elements.		X	Wiews	jerenia.	Art. 3.3G
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	х	 ·	_	Sec. 1,2.2(c), 2.1,4.3,1.6	
c. Specified size, grade and type of reisforcement.		X		Sec. 1.12	Art. 2.4, 3.4
d. Welding of reinforcment.	X	-	·	Sec. 2.1.10.6.2, 3.2.3.4(b)	
 e. Protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F). 		x	Sec. 2104.3, 2104.4		Art. 1.8C, 1.8D
f. Application and measurement of prestressing force.	x				Art. 3.6B
 Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed. 	X	-	Sec. 2105.2.2, 2105.3	-	Art. 1.4
 Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified. 		x		. <u> </u>	Art. 1.5

For SI: C = (F - 32)/1.8. a. The specific standards referenced are those listed in Chapter 35.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.11 Sprayed fire-resistant materials. / 1704.11.4 Density.

1704.11.4 Density.

The density of the sprayed fire-resistant material shall not be less than the density specified in the approved fire-resistant design. Density of the sprayed fire-resistant material shall be determined in accordance with ASTM E 605.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.11 Sprayed fire-resistant materials. / 1704.11.5 Bond strength.

1704.11.5 Bond strength.

The cohesive/adhesive bond strength of the cured sprayed fire-resistant material applied to structural elements shall not be less than 150 pounds per square foot (psf) (7.18 kN/m²). The cohesive/adhesive bond strength shall be determined in accordance with the field test specified in ASTM E 736 by testing in-place samples of the sprayed fire-resistant material selected in accordance with Sections 1704.11.5.1 and 1704.11.5.2.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.11 Sprayed fire-resistant materials. / 1704.11.5 Bond strength. / 1704.11.5.1 Floor, roof and wall assemblies.

1704.11.5.1 Floor, roof and wall assemblies.

The test samples for determining the cohesive/adhesive bond strength of the sprayed fire-resistant materials shall be selected from each floor, roof and wall assembly at the rate of not less than one sample for every 10,000 square feet (929 m²) or part thereof of the sprayed area in each story.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.11 Sprayed fire-resistant materials. / 1704.11.5 Bond strength. / 1704.11.5.2 Structural framing members.

1704.11.5.2 Structural framing members.

The test samples for determining the cohesive/adhesive bond strength of the sprayed fire-resistant materials shall be selected from beams, girders, joists, trusses and columns at the rate of not less than one sample for each type of structural framing member for each 10,000 square feet (929 m²) of floor area or part thereof in each story.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.12 Exterior insulation and finish systems (EIFS).

1704.12 Exterior insulation and finish systems (EIFS). Special inspections shall be required for all EIFS applications.

Exceptions:

- 1. Special inspections shall not be required for EIFS applications installed over a water-resistive barrier with a means of draining moisture to the exterior.
- 2. Special inspections shall not be required for EIFS applications installed over masonry or concrete walls.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.13 Special cases.

1704.13 Special cases.

Special inspections shall be required for proposed work that is, in the opinion of the building official, unusual in its nature, such as, but not limited to, the following examples:

- 1. Construction materials and systems that are alternatives to materials and systems prescribed by this code.
- 2. Construction materials and systems that are alternatives to materials and systems prescribed by this code. Unusual design applications of materials described in this code.
- 3. Materials and systems required to be installed in accordance with additional manufacturer's instructions that prescribe requirements not contained in this code or in standards referenced by this code.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.14 Special inspection for smoke control.

1704.14 Special inspection for smoke control.

Smoke control systems shall be tested by a special inspector.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.14 Special inspection for smoke control. / 1704.14.1 Testing scope.

1704.14.1 Testing scope.

The test scope shall be as follows:

- 1. During erection of duct work and prior to concealment for the purposes of leakage testing and recording of device location.
- 2. During erection of duct work and prior to concealment for the purposes of leakage testing and recording of device location. Prior to occupancy and after sufficient completion for the purposes of pressure difference testing, flow measurements and detection and control verification.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.14 Special inspection for smoke control, / 1704.14.2 Qualifications.















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DARRY A WICHTOORD DEVENDENT LATY Wichroski, P.E. DRAWN BY: LAW JOB NO. 02206 DATE 01-20-07 REVISIONS 03-22-08 SHEET: A 2		4

- <u>NOTES:</u>
 I. Entry walls and ceiling shall be insulated with 6" of batt insulation, and constructed of 6" x 20 Ga. metal studs, cement board
- and constructed of 6" x 20 Ga. metal studs, cement board sheathing and exterior plastered finished. Color by Owner.
 Provide 4" minimum granite floor in entry with full copper pan flashing. Flash below granite to 8" above bottom of walls and slope surface 1" to exterior.
 Provide sound and dust barrier with 6" minimum insulation around construction area. Remove and repair damaged area after completion of resider.

- around construction area. Remove and repair damaged area after completion of project.
 Door: 3'-0" x 6'-8" Anodized Aluminum alloy with flat black finish and safety glass.
 Provide electric space heater within ceiling with thermostate at main office area.
 Provide recessed two way intercom system from entry vestibule to main office within church.

Existing Brick Masonry Walls







