

Appeal Period Expires <u>6/31/09</u> Zoning District <u>MXD-PUD</u>	<b>Town of Essex, Vermont</b> <b>Application for Zoning Permit</b> www.essex.org	Application Date <u>1/1</u> Permit Number <u>2009-52</u>
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All construction is to be completed in accordance with the Town of Essex Zoning Regulations and any/all federal or state regulations now in effect. You are required to post this permit in a conspicuous location on the property and it must remain posted throughout the construction period.

Any interested person may appeal the decision of the Zoning Administrator to the Zoning Board of Adjustment within fifteen (15) days of the permit's date of issuance. Commencing construction within this fifteen (15) day appeal period is prohibited by law.

Occupancy of the premises shall not take place until a Certificate of Occupancy is obtained.

Approval is subject to accuracy of information provided by the applicant.

<b>A</b>	<b>Parcel Account Numb.</b> (Map-Parcel-Lot) <u>2-091-008-002</u> <small>(found in Town Assessor's Office)</small> <b>Property Address:</b> <u>7 Essex Way</u> <b>Owner:</b> <u>Emovest Partners, Limited Ltd.</u> <b>Owner Address:</b> <u>21 Essex Way Suite 300</u> <b>Owner Phone:</b> (work) <u>878-4200</u> (home) _____ (cell) _____ (Email) _____ <b>Contractors name:</b> <u>New England Retail Construction</u> Phone: _____ <u>JOE SCHARF</u> Cell: <u>774-229-6244</u> <b>Estimated Construction Dates:</b> Start: <u>5/30/09</u> Completion: <u>5/1/10</u> <b>Sq. Feet:</b> <u>13,500 sq. ft.</u> <b>Estimated Cost (labor &amp; materials):</b> <u>\$890,000</u>
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Check box(es) which describe proposed use or construction (circle choice in parenthesis). N = New A = Addition R = Remodel																																																																																								
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<b>B</b>	<b>Sewage Disposal</b> (Please attach Sewer or Septic Application). <u>Existing</u> Public <input type="checkbox"/> Private <input type="checkbox"/> Connection Fee \$ <u>0</u> Date Paid: <u>1/1</u> Proposed New Bedrooms: _____ Existing Bedrooms: _____
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<b>C</b>	<b>Water</b> (Please attach Water Service Application). <u>Existing</u> Public <input type="checkbox"/> Private <input type="checkbox"/> Fee \$ <u>0</u> Date Paid: <u>1/1</u>
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<b>D</b>	<b>Driveway</b> (Please attach copy of approved Curbcut / Utility Application). Date of approval <u>5/19/09</u> <u>existing, however changes requested sent to P.W.</u>
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<b>E</b>	<b>Stormwater</b> <input type="checkbox"/> Project disturbs an area greater than or equal to 1 acre – Erosion Control Permit Required. Attach completed permit application. <input type="checkbox"/> Project creates new or expands existing impervious surface greater than or equal to 1/2 acre – Erosion Control Permit and Stormwater Management Permit required. Attach completed permit application.
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<b>F</b>	<b>Diagram</b> – Show a sketch of project on reverse of this application with property lines, building, and setbacks or attach separate sheet. (Instruction sheet available upon request.) <u>To be constructed pursuant to Planning Commission approval # 2008-30.</u>
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<b>G</b>	<b>Signature of Owner</b> <u>[Signature]</u>
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Office Use Only			
Fees:	Type	Amount	Date Pd
	Permit	\$ <u>4,670.00</u>	<u>5/11/09</u>
	School	\$ _____	<u>1/1</u>
	Recreation	\$ _____	<u>1/1</u>
	Recording	\$ <u>16.00</u>	<u>5/11/09</u>
	Other	\$ <u>1,385.75.00</u>	<u>5/11/09</u>
Building Permit			
Approved <input checked="" type="checkbox"/>	Rejected <input type="checkbox"/>	Date	<u>5/19/09</u>
Issued to: <u>Emovest Retail Partners Ltd</u>			
Zoning Administrator: <u>Sharon L Kelley</u>			
Notes: _____			
C.O. Required Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

**Certificate of Insurance**

This certificate is issued as a matter of information only and confers no rights upon the certificate holder. This certificate is not an insurance policy and does not affirmatively or negatively amend, extend, or alter the coverage afforded by the policies listed below. Policy limits are no less than those listed, although policies may include additional sublimits not listed below. Policy limits may be reduced by claims or other payments.

This is to certify that (Name and address of Insured) This voids and supercedes the certificate issued on 07/02/2008.

New England Retail Construction Corp and named insured listing on file  
 139 S. Main St  
 Fall River, MA 02771-3701



is, at the issue date of this certificate, insured by the Company under the policy(ies) listed below. The insurance afforded by the listed policy(ies) is subject to all their terms, exclusions and conditions and is not altered by any requirement, term or condition of any contract or other document with respect to which this certificate may be issued.

Expiration Type		Eff./Exp. Date(s)	Policy Number(s)	Limits of Liability	
<input type="checkbox"/>	Continuous*	07/01/2008 / 07/01/2009	WC2-111-257569-018	Coverage afforded under WC law of the following states: CT, MA, NY, RI, SC	<b>Employers Liability</b>
<input type="checkbox"/>	Extended				<b>Bodily Injury By Accident</b> \$500,000 Each Accident
<input checked="" type="checkbox"/>	Policy Term				<b>Bodily Injury By Disease</b> \$500,000 Policy Limit
<b>Workers Compensation</b>					<b>Bodily Injury By Disease</b> \$500,000 Each Person
<b>General Liability</b>		07/01/2008 / 07/01/2009	TB2-111-257569-138	<b>General Aggregate-Other than Prod/Completed Operations</b> \$2,000,000	
<input type="checkbox"/>	Claims Made			<b>Products/Completed Operations Aggregate</b> \$2,000,000	
<input checked="" type="checkbox"/>	Occurrence			<b>Bodily Injury and Property Damage Liability</b> \$1,000,000	Per Occurrence
<b>Retro Date</b>				<b>Personal and Advertising Injury</b> \$1,000,000	Per Person / Organization
				<b>Other Liability</b> \$100,000 Fire legal	<b>Other Liability</b> \$5,000 Medical Limit
<b>Automobile Liability</b>		07/01/2008 / 07/01/2009	AS6-111-257569-038	<b>Each Accident - Single Limit - B. I. and P. D. Combined</b> \$1,000,000	
<input checked="" type="checkbox"/>	Owned			<b>Each Person</b>	
<input checked="" type="checkbox"/>	Non-Owned			<b>Each Accident or Occurrence</b>	
<input checked="" type="checkbox"/>	Hired			<b>Each Accident or Occurrence</b>	
		07/01/2008 / 07/01/2009	TH2-611-257569-068	\$10,000,000 Products, Completed Opr. Agg. \$10,000,000 Each Occurrence	

**C O M M E N T S**  
 Job Number: Evidence of Coverage

**IMPORTANT** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s). If SUBROGATION IS WAIVED, subject to the forms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsements. The following applies only with respect to insurance for motor carriers registered in Florida: As provided for in Fla. Stat. § 320.02(5)(e), the listed insurance policy may not be cancelled on less than 30 days written notice by the insurer to the Department of Hwy Safety & Motor Vehicles, such 30 days notice to commence from date notice is received by the Department.

Notice of cancellation: (not applicable unless a number of days is entered below). Before the stated expiration date the company will not cancel or reduce the insurance afforded under the above policies until at least 30 days notice of such cancellation has been mailed to:

Office: PROVIDENCE, RI Phone: 401-272-5392  
 Certificate Holder:  
 New England Retail Construction Corp.  
 139 South Main Street  
 Fall River, MA 02720

*Amy Shaw*  
 AMY SHAW  
 Authorized Representative

Date Issued: 07/02/2008 Prepared By: AS

*contractor's proof of insurance.*

# Operating Fee Billing Statement

Date: March 12, 2009

Vermont Agency of Natural Resources  
Department of Environmental Conservation  
Water Quality Division  
103 South Main Street - Building 10 North  
Waterbury VT 05671 - 0408  
Phone: 802-241-3770 Fax: 802-241-3287

TO:

G.B. New England 2, LLC  
Chris Moretti  
14 Brakneck Road, Ste 101  
Lincoln, RI 02865

Town Meadow, LLC  
Carmichael Street SW Discharge Mgmt. Assoc., Inc.  
Jim Dousevicz  
56 West Twin Oaks Terrace, Unit 1  
South Burlington, VT 05403

Cathedral Square Corp.  
Essex Senior Housing, LP  
Amy Wright  
412 Farrell Street, Ste 100  
South Burlington, VT 05403

INVOICE NUMBER	FACILITY	DEC CONTACT	PERMIT ISSUED	FEE DUE	PERMIT NUMBER
WQ4484-9015.A	CVS Pharmacy, Cathedral Square Corporation, and Town Meadow PUD	Michelle Lavigne	03/12/2009	04/12/2009	4484-9015.A

DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	ANNUAL FEE
Stormwater runoff from the CVS Pharmacy portion (G.B. New England)	1.36	acres	\$55.00	\$74.80
Stormwater runoff from the Town Meadow portion (Town Meadow, LLC) Town Meadow has a 4 months credit from payment on the 4484-9015 operating fees in the amount of \$74.43 – this is deducted from the Town Meadow, LLC fee due on 4484-9015.A	3.64	acres	\$55.00	\$200.20 \$125.77
Stormwater runoff from the Cathedral Square Corporation portion	.74	acres	\$55.00	\$40.70
<b>Total Due</b>	<b>5.74</b>		<b>TOTAL</b>	<b>\$345.70 \$241.27</b>

PLEASE MAKE CHECKS PAYABLE TO STATE OF VERMONT

\*Please Reference: Permit Number 4484-9015.A

Your operating fee is due April 12, 2009

Permit Number 4484-9015.A  
Project ID Number EJ06-0424

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
AMENDED AUTHORIZATION TO DISCHARGE UNDER  
GENERAL PERMIT 3-9015

A determination has been made that the applicants:

Carmichael Street Stormwater Discharge Management Association, Inc.

56 West Twin Oaks Terrace, Unit 1

South Burlington, VT 05403

and

G.B. New England 2, LLC

14 Breakneck Road, Suite 101

Lincoln, RI 02865

**(Impervious area: 1.36 acres)**

and

Town Meadow, LLC

56 West Twin Oaks Terrace, Unit 1

South Burlington, VT 05403

**(Impervious area: 3.64 acres)**

and

Cathedral Square Corporation

412 Farrell Street, Suite 100

South Burlington, VT 05403

**(Impervious area: 0.74 acres)**

and

Essex Senior Housing, LP

412 Farrell Street, Suite 100

South Burlington, VT 05403

meet the criteria necessary for inclusion under General Permit 3- 9015. Here after the named applicants shall be referred to as the permittee. Subject to the conditions of General Permit No. 3-9015, the permittee is authorized to discharge stormwater from CVS Pharmacy, Cathedral Square Corp., and Town Meadow PUD located at 7 Essex Way and 22 Carmichael Street in Essex, Vermont to Alder Brook.

*Manner of Discharge:*

*S/N 001: Stormwater runoff from rooftops, parking areas, and access drives via sheet flow and via three grass channels to a catch basin and pipe closed drainage system, all routed to a wet extended detention pond with pretreatment sediment forebay. Pond discharges via a controlled outlet structure to Alder Brook.*

*Design:* This project shall be constructed and operated in accordance with the site plans and details designed by O'Leary - Burke Civil Associates, PLC (Sheets S1,

and a copy of the recording shall be provided to the Department within fourteen (14) days of the permittee's receipt of a copy of the recording from the local land records.

Rights to Appeal to the Environmental Court

Pursuant to 10 V.S.A. Chapter 220, any appeal of this decision must be filed with the clerk of the Environmental Court within 30 days of the date of the decision. The appellant must attach to the Notice of Appeal the entry fee of \$225.00, payable to the state of Vermont. The Notice of Appeal must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Court; and must be signed by the appellant or their attorney. In addition, the appeal must give the address or location and description of the property, project or facility with which the appeal is concerned and the name of the applicant or any permit involved in the appeal. The appellant must also serve a copy of the Notice of Appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings. For further information, see the Vermont Rules for Environmental Court Proceedings, available on line at [www.vermontjudiciary.org](http://www.vermontjudiciary.org). The address for the Environmental Court is 2418 Airport Road, Suite 1, Barre, VT 05641 (Tel. # 802-828-1660).

Effective Date and Expiration Date of this Authorization

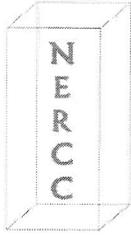
This amended authorization to discharge shall become effective on March 12, 2009 and shall continue until August 20, 2017. The permittee shall reapply for coverage at least sixty (60) days prior to August 20, 2017.

Dated at Waterbury, VT this 12<sup>th</sup> day of March, 2009.

Laura Q. Pelosi, Commissioner  
Department of Environmental Conservation

By 

\_\_\_\_\_  
Peter LaFlamme, Director  
Water Quality Division



New England Retail  
Construction Corporation

## Transmittal

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**Date:** May 8, 2009

**To:** Town of Essex, VT / Building Department

**From:** Joe Scharf/ New England Retail Construction

**CC:** Ron Laprise / New England Retail Construction

**Project:** CVS Pharmacy Essex, VT Store #75671

**Ref:** **Building Permit Submittal**

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Dear Sir / Madam:

Included with this transmittal, please find our building permit submittal package for your review and approval.

- Architectural, Structural, and MEP Drawings
- Civil Drawings
- Schedule of Inspections
- Comcheck Report

If you have any questions or need any further information please do not hesitate to call our office 508-336-3366.

Mr. Jeff Rogers Ext 180

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# Statement of Special Inspections

Project: CVS 75671- Essex, VT

Location: Center Rd., Essex Way & Carmichael St., Essex, VT

Owner: Gershman Brown & Crowley

Owners Address: 14 Breakneck Hill Road, Suit 101  
Lincoln, RI 02865

Architect of Record: BKA Architects, Inc.

Structural Engineer of Record: C.A. Pretzer Associates, Inc. Cranston, RI

This State of Special Inspections is submitted as a condition for permit issuance in accordance with the special inspection requirements of the International Building Code (IBC 2003 with Vermont Supplement). It includes a Schedule of Special Inspections applicable to this project as well as the name of the Special Inspector and the certainty of other approved agencies intended to be retained for conducting these inspections.

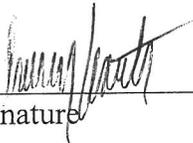
The Special Inspector shall keep records of all inspections, and shall furnish inspection reports to the code official and to the structural engineer and architect of record. Discovered discrepancies shall be brought to the immediate attention of the contractor for correction. If such discrepancies are not corrected the discrepancies shall be brought to the attention of the code official and the structural engineer and architect of record. The special inspection program does not relieve the contractor of his or her responsibilities.

Interim reports shall be submitted to the code official, owner, structural engineer and architect of record. A schedule of interim reports shall be approved by the Code Official prior to permit issuance. A final report of inspections documenting completion of all required special inspections and correction of any discrepancies noted in the inspections shall be submitted prior to the issuance of a certificate of use and occupancy.

Interim Report Frequency: Monthly or  per attached schedule.

Prepared by Design Professional

Barry Koretz

  
Signature

5.5.09  
Date



\_\_\_\_\_  
Building Official's Acceptance

# Statement of Special Inspections

Project: CVS 75671 – New stand alone retail building

Location: Center Rd., Essex Way & Carmichael St., Essex, VT

Owner: **Gershman Brown & Crowley, Inc.**

Owners Address: **14 Breakneck Hill Road, Suite 101  
Lincoln, RI 02865**

Architect of Record: **B.K.A. Architects, Inc. Brockton, MA**

Structural Engineer of Record: **C.A. Pretzer Associates, Inc. Cranston, RI**

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the special inspection requirements of the International Building Code (IBC 2003). It includes a Schedule of Special Inspections applicable to this project as well as the name of the Special Inspector and the certainty of other approved agencies intended to be retained for conducting these inspections.

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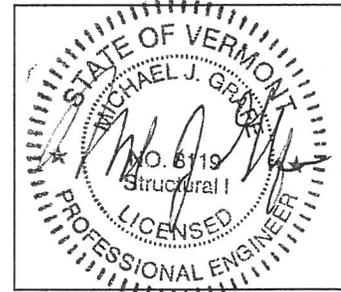
A final report of inspections documenting completion of all required special inspections and correction of any discrepancies noted in the inspections shall be submitted prior to the issuance of a certificate of use and occupancy.

Interim Report Frequency: 3, at important construction milestones or  per attached schedule.

Structural Engineer of Record

Michael J. Grafe, P.E.  
(Type or print name)

\_\_\_\_\_  
Signature Date



\_\_\_\_\_  
Owner's Authorization

\_\_\_\_\_  
Building Official's Acceptance

## Schedule of Special Inspection Services

The following sheets comprise the required schedule of special inspections for the subject project. Special inspections are required for the following construction divisions which are checked:

Division 2

X      Soils and Foundations

Division 3

X      Cast-in-Place Concrete                      ACI 318-05

Division 4

X      Masonry    ACI 530-05

Division 5

X      Structural Steel                                      AISC

Division 6

X      Wood Trusses                                        TPI Spec. / NF&PA NDS 2005

	Firm	Address
<i>1. Special Inspector</i>	BKA Architects, Inc.	142 Crescent Street Brockton, MA 02302
<i>2. Testing Laboratory</i>	To be contracted by Owner	
<i>3. Geotechnical Engineer</i>		
<i>4. Other (Structural Eng.)</i>	Michael J. Grafe, P.E. C.A. Pretzer Associates, Inc.	50 Freeway Drive Cranston, RI 02920

Note: The qualifications of all personnel performing Special Inspection activities are subject to the Building Official's approval.

## Division 2 – Earthwork

### Section – Excavation and Backfill

Item	Agent No.	Inspection Scope
1. Shallow Foundations – Footings & Piers - Yes	2	Review excavations for suitability prior to placing concrete footings.
2. Controlled Structural Fill Yes	2	Perform field density tests on compacted fills within the building perimeter as required; provide reports and test results.
3. Deep Foundations	N/A	
4. Other	N/A	

## Division 3 – Concrete

### Section – Cast-in-Place Concrete

Item	Agent No.	Inspection Scope
1. Concrete Mix Design Yes	4	Review and approve concrete mix designs submitted by the contractor.
2. Material Certification Yes	4	Review data submitted by the contractor.
3. Reinforcement Installation Yes	2	Field review the following in accordance with cited ACI 318-05 Sections: Section 7.4 – Surface Conditions of Reinforcement Section 7.5 – Placing Reinforcement Section 7.6 – Spacing Limits for Reinforcement Section 7.7 – Concrete Protection for Reinforcement
4. Post Tensioning Operations N/A	N/A	
5. Batching Plant Yes	2	Visit batching plant and verify conformance with pertinent requirements of Chapter 3 “Materials” and Chapter 5 “Concrete Quality, Mixing, and Placing” of ACI 318-05.
6. Formwork Geometry Yes	2	Field review the following in accordance with cited ACI 318-05 Sections: Section 6.1 – Design of Formwork Section 6.2 – Removal of Forms and Shores
7. Concrete Placement Yes	2	Inspect for proper application techniques in accordance with ACI 318-05, Sections 5.9 and 5.10.
8. Evaluation of Concrete Strength – Yes	2	Obtain concrete cylinders & test for compressive strength, provide reports. Provide one (1) set of cylinders for each 30 c.y. or single day pour if less than 30 c.y.
	4	Review lab reports.
9. Curing and Protection Yes	2	Review placement of approved curing method. Inspect for maintenance of curing temperatures and techniques specified in ACI 318-05, Sections 5.11, 5.12, and 5.13.

## Division 4 – Masonry

### Section – Unit Masonry

Item	Agent No.	Inspection Scope
1. Material Certification - Yes	2	Review material certificates for all products listed in of ACI 530.1-05/ ASCE 6-05 required by the Contract Documents
2. Mixing of Mortar - Yes	2	Verify that proportioning, mixing and consistency of mortar complies with applicable provisions of ACI 530.1-05/ ASCE 6-05
3. Installation of Masonry - Yes	2	Verify that installation of masonry units and mortar conform with applicable provisions of ACI 530.1-05/ ASCE 6-05
4. Reinforcement Installation – Yes	2	Verify that the condition, size, location and spacing of reinforcement complies with applicable provisions of ACI 530.1-05/ ASCE 6-05
5. Weather Protection – Yes	2	Verify that cold weather and hot weather construction complies with ACI 530.1-05/ ASCE 6-05
6. Grout placement - Yes	2	Observe the placement of grout complies with applicable provisions of ACI 530.1-05/ ASCE 6-05
7. Grout Mix Design - Yes	4	Review the approved grout mix designs submitted by the contractor.
7. Preparation of grout, mortar, and prisms	2	Observe preparation of mortar, grout, and masonry prisms and test specimens and perform tests per ACI 530.1-05/ ASCE 6-05 and Chapter 17 Structural Tests and Special Inspections of the State Building Code
8. Other	N/A	

## Division 5 – Structural Steel

### Section – Structural

Item	Agent No.	Inspection Scope
1. Fabrication Certification/Quality Control Procedures - Yes	2	Verify that the fabricator maintains detailed fabrication and quality control procedures in accordance with section 1308 3.2 of the Vermont State Building Code
2. Material Certification - Yes	2	<p>All main stress-carrying elements, welding material, and bolting material shall be inspected for conformance with the following standards.</p> <p><u>MATERIAL:</u> Bolts, Nuts, Washers</p> <p><u>INSPECTION REQUIRED:</u></p> <ol style="list-style-type: none"> <li>1. Material identification markings</li> <li>2. Conformance to ASTM standards specified by the design engineer. Manufacturer's certificate of compliance is required.</li> </ol> <p><u>REFERENCE FOR CRITERIA:</u> Applicable ASTM material specification. AISC specification for Structural Steel Buildings-Allowable Stress Design and Plastic Design, Section A3.4.</p> <p><u>MATERIAL:</u> Structural Steel.</p> <p><u>INSPECTION REQUIRED:</u></p> <ol style="list-style-type: none"> <li>1. Material identification markings</li> <li>2. Conformance to ASTM standards specified in the approved plans and specifications.</li> </ol> <p><u>REFERENCE FOR CRITERIA:</u> ASRM A6 or ASTM A.468. Provide certified test reports in accordance with ASTM A6 or ASTM A568.</p> <p><u>MATERIAL:</u> Weld filler material</p> <p><u>INSPECTION REQUIRED:</u> Conformance to AWS specification as specified in the approved plans and specifications.</p> <p><u>REFERENCE FOR CRITERIA:</u> AISC Specifications for Structural Steel Building – Allowable Stress Design and Plastic Design, Section A3.6.</p>
3. Open Web Steel Joists – yes	2	Similar to item 2 above.
4. Bolting – Yes	2	Visual Inspection of all anchors bolts. Installation of high-strength bolts shall be inspected in accordance with requirement of Section 8 of the AISC "Specification for Structural Joints Using A.325 or A490.

5. Welding - Yes	2	<p>Weld inspection shall comply with AWS D1.1 Section 6.</p> <p>Verify that welders qualifications are in compliance with AWS D1.1</p> <p>Perform ultrasonic testing on 100 percent of full and partial penetration welds. The percentage of welds may be modified by the Structural Engineer of Record, as the work progresses, depending on initial results/</p> <p>Base metal exceeding 1.5 inches in thickness and subject to through-thickness weld shrinkage strains shall be ultrasonically tested for discontinuities behind and adjacent to the welds after joint welding.</p>
6. Shear Connectors – Yes	2	Field Inspection
7. Structural Details – Yes	2,4	<ol style="list-style-type: none"> <li>1. Field review for general fit-up</li> <li>2. Inspect the steel frame to verify compliance with construction details on the Contract Documents and approved Shop Drawings including bracing, stiffening, member locations, proper application of joint details at every connection, column plumbness, and general fit-up.</li> </ol>
8. Other – None		

## Division 6 – Wood

### Section – Wood Trusses

Item	Agent No.	Inspection Scope
1. Fabrication Certification/Quality Control Procedures - Yes	4/2	Verify that the fabricator maintains detailed fabrication and quality control procedures in accordance with section 1308 3.2 of the Vermont State Building Code.
2. Material Certification - Yes	4/2	Review Data submitted by Truss manufacturer and visual inspection of trusses.
3. Connections	2	Field review in accordance with the design specifications for metal plate connected to wood trusses
4. Framing and Details – N/A	N/A	
5. Prefabricated Trusses	2	Designed in accordance with TPI Design Specifications for metal plate connected wood trusses and NF.PA NDS



COMcheck Software Version 3.6.0  
**Envelope Compliance Certificate**

**2005 Vermont Guidelines for Energy Efficient Commercial Construction**

**Section 1: Project Information**

Project Type: **New Construction**  
 Project Title : CVS/Pharmacy

Construction Site:  
 Center Road, Essex Way & Carmichael St  
 Essex, VT

Owner/Agent:  
 Doug Murray  
 Gershman Brown & Crowley  
 14 Breakneck Hill Road  
 Lincoln, RI

Designer/Contractor:  
 Sara Connolly  
 BKA Architects, Inc.  
 42 Crescent Street  
 Brockton, MA 02302  
 508-503-5603  
 sconolly@bkaarchs.com

**Section 2: General Information**

Building Location: **Vermont**  
 Heating Degree Days (base 65 degrees F): **7426**  
 Cooling Degree Days (base 65 degrees F): **378**  
 Vertical Glazing / Wall Area Pct.: **19%**

<u>Building Type</u>	<u>Floor Area</u>
Retail	13225

**Section 3: Requirements Checklist**

**Envelope PASSES: Design 4% better than code.**

**Climate-Specific Requirements:**

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof 1: Insulation Entirely Above Deck	6258	---	26.8	0.036	0.040
Roof 2: Attic Roof with Wood Joists	7571	38.0	0.0	0.027	0.027
Exterior Wall 1: Steel-Framed, 16" o.c.	6306	21.0	0.0	0.106	0.064
Window 1: Metal Frame with Thermal Break:Double Pane, Clear, Fixed, SHGC 0.66, PF 0.53	89	---	---	0.630	0.500
Window 2: Metal Frame with Thermal Break:Double Pane, Tinted, Fixed, SHGC 0.56	129	---	---	0.630	0.500
Window 3: Metal Frame with Thermal Break:Double Pane, Clear, Fixed, SHGC 0.66, PF 4.00	41	---	---	0.630	0.500
Window 4: Metal Frame with Thermal Break:Double Pane, Tinted, Fixed, SHGC 0.56	58	---	---	0.630	0.500
Window 5: Metal Frame with Thermal Break:Double Pane, Clear, Fixed, SHGC 0.66, PF 1.00	29	---	---	0.630	0.500
Window 6: Metal Frame with Thermal Break:Double Pane, Clear, Fixed, SHGC 0.66, PF 0.35	13	---	---	0.630	0.500
Window 7: Metal Frame with Thermal Break:Double Pane, Clear, Fixed, SHGC 0.66, PF 4.00	76	---	---	0.630	0.500
Window 8: Metal Frame with Thermal Break:Double Pane, Tinted, Fixed, SHGC 0.56	106	---	---	0.630	0.500
Window 9: Metal Frame with Thermal Break:Double Pane, Clear, Fixed, SHGC 0.66, PF 4.00	41	---	---	0.630	0.500
Window 10: Metal Frame with Thermal Break:Double Pane, Tinted, Fixed, SHGC 0.56	58	---	---	0.630	0.500

Window 3 copy 1: Metal Frame with Thermal Break:Double Pane, Clear, Fixed, SHGC 0.66, PF 4.00	41	---	---	0.630	0.500
Window 3 copy 2: Metal Frame with Thermal Break:Double Pane, Clear, Fixed, SHGC 0.66, PF 4.00	41	---	---	0.630	0.500
Window 4 copy 1: Metal Frame with Thermal Break:Double Pane, Tinted, Fixed, SHGC 0.56	58	---	---	0.630	0.500
Window 4 copy 1: Metal Frame with Thermal Break:Double Pane, Tinted, Fixed, SHGC 0.56	58	---	---	0.630	0.500
Window 9 copy 1: Metal Frame with Thermal Break:Double Pane, Clear, Fixed, SHGC 0.66, PF 4.00	41	---	---	0.630	0.500
Window 9 copy 1: Metal Frame with Thermal Break:Double Pane, Clear, Fixed, SHGC 0.66, PF 4.00	41	---	---	0.630	0.500
Window 9 copy 1: Metal Frame with Thermal Break:Double Pane, Clear, Fixed, SHGC 0.66, PF 4.00	41	---	---	0.630	0.500
Window 10 copy 1: Metal Frame with Thermal Break:Double Pane, Tinted, Fixed, SHGC 0.56	58	---	---	0.630	0.500
Window 10 copy 1: Metal Frame with Thermal Break:Double Pane, Tinted, Fixed, SHGC 0.56	58	---	---	0.630	0.500
Window 10 copy 1: Metal Frame with Thermal Break:Double Pane, Tinted, Fixed, SHGC 0.56	58	---	---	0.630	0.500
Door 1: Uninsulated Single-Layer Metal, Swinging	48	---	---	1.450	0.500
Door 2: Uninsulated Single-Layer Metal, Swinging	21	---	---	0.700	0.500
Door 3: Glass, Clear, SHGC 0.40	65	---	---	0.100	0.800
Floor 1: Slab-On-Grade:Unheated, Vertical 4 ft.	451	---	10.0	---	---

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

#### Air Leakage, Component Certification, and Vapor Retarder Requirements:

- 1. All joints and penetrations are caulked, gasketed, weather-stripped, or otherwise sealed.
- 2. Windows, doors, and skylights certified as meeting leakage requirements.
- 3. Component R-values & U-factors labeled as certified.
- 4. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
- 5. Vapor retarder installed.

#### Section 4: Compliance Statement

*Compliance Statement:* The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2005 Vermont Guidelines for Energy Efficient Commercial Construction requirements in COMcheck Version 3.6.0 and to comply with the mandatory requirements in the Requirements Checklist.

SARA CONNOLLY JOB CAPTAIN  
Name - Title

Signature

Date

5.1.09



COMcheck Software Version 3.6.0

# Interior Lighting Compliance Certificate

## 2005 Vermont Guidelines for Energy Efficient Commercial Construction

### Section 1: Project Information

Project Type: **New Construction**

Project Title : CVS/Pharmacy

Construction Site:

Center Road, Essex Way & Carmichael St  
Essex, VT

Owner/Agent:

Doug Murray  
Gershman Brown & Crowley  
14 Breakneck Hill Road  
Lincoln, RI

Designer/Contractor:

Sara Connolly  
BKA Architects, Inc.  
42 Crescent Street  
Brockton, MA 02302  
508-503-5603  
sconnolly@bkaarchs.com

### Section 2: General Information

Building Use Description by:

**Building Type**

Retail

**Floor Area**

13225

### Section 3: Requirements Checklist

#### Interior Lighting:

1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
19838	16718	YES

2. Exit signs 5 Watts or less per side.

#### Controls, Switching, and Wiring:

3. Independent controls for each space (switch/occupancy sensor).

*Exceptions:*

Areas designated as security or emergency areas that must be continuously illuminated.

Lighting in stairways or corridors that are elements of the means of egress.

4. Master switch at entry to hotel/motel guest room.  
 5. Individual dwelling units separately metered.  
 6. Each space provided with a manual control to provide uniform light reduction by at least 50%.

*Exceptions:*

Only one luminaire in space;

An occupant-sensing device controls the area;

The area is a corridor, storeroom, restroom, public lobby or guest room;

Areas that use less than 0.6 Watts/sq.ft.

7. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

*Exceptions:*

Areas with only one luminaire, corridors, storerooms, restrooms, or public lobbies.

8. Photocell/astronomical time switch on exterior lights.

*Exceptions:*

Lighting intended for 24 hour use.

9. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).





COMcheck Software Version 3.6.0

# Interior Lighting Application Worksheet

## 2005 Vermont Guidelines for Energy Efficient Commercial Construction

### Section 1: Allowed Lighting Power Calculation

A	B Floor Area	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts
Retail	13225	1.5	19838
Total Allowed Watts =			19838

### Section 2: Proposed Lighting Power Calculation

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
<b>Retail (13225 sq.ft.)</b>				
Linear Fluorescent 1: A: (2)LAMP WIDE STRIP / 48" T8 32W / Electronic	4	101	115	11615
Linear Fluorescent 2: A1: (2)LAMP WIDE STRIP / 48" T8 32W / Electronic	4	6	115	690
Linear Fluorescent 3: A2: (2)LAMP WIDE STRIP / 48" T8 32W / Electronic	2	11	63	693
Linear Fluorescent 4: B: 2X4 PARABOLIC / 48" T8 32W / Electronic	2	37	63	2331
Linear Fluorescent 5: B1: 2X4 PARABOLIC / 48" T8 32W / Electronic	2	5	63	315
Linear Fluorescent 6: C: 8' STRIP FIXTURE / 48" T8 32W / Electronic	2	9	63	567
Linear Fluorescent 7: C1: 4' STRIP FIXTURE / 48" T8 32W / Electronic	2	5	63	315
Linear Fluorescent 8: D: 2'X4' LAY-IN FLUORESCENT TROFFE / 48" T8 32W / Electronic	3	2	96	192
Total Proposed Watts =			16718	

### Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Proposed Watts is greater than or equal to zero, the building complies.

Total Allowed Watts = 19838  
 Total Proposed Watts = 16718  
 Project Compliance = 3120

**Interior Lighting PASSES:** Design 16% better than code.



COMcheck Software Version 3.6.0

# Mechanical Compliance Certificate

## 2005 Vermont Guidelines for Energy Efficient Commercial Construction

### Section 1: Project Information

Project Type: **New Construction**

Project Title : CVS/Pharmacy

Construction Site:

Center Road, Essex Way & Carmichael St  
Essex, VT

Owner/Agent:

Doug Murray  
Gershman Brown & Crowley  
14 Breakneck Hill Road  
Lincoln, RI

Designer/Contractor:

Sara Connolly  
BKA Architects, Inc.  
42 Crescent Street  
Brockton, MA 02302  
508-503-5603  
sconnolly@bkaarchs.com

### Section 2: General Information

Building Location:

**Vermont**

Heating Degree Days (base 65 degrees F):

**7426**

Cooling Degree Days (base 65 degrees F):

**378**

### Section 3: Mechanical Systems List

#### Quantity   System Type & Description

- |   |  |
|---|--|
| 1 | RTU-1: Heating: Central Furnace, Gas / Cooling: Rooftop Package Unit, Capacity $\geq 135$ - $< 240$ kBtu/h, Air-Cooled Condenser / Single Zone |
| 1 | RTU-2: Heating: Central Furnace, Gas / Cooling: Rooftop Package Unit, Capacity $\geq 135$ - $< 240$ kBtu/h, Air-Cooled Condenser / Single Zone |
| 1 | RTU-3: Heating: Duct Furnace, Gas / Cooling: Rooftop Package Unit, Capacity $< 54$ kBtu/h, Air-Cooled Condenser / Single Zone                  |
| 1 | RTU-4: Heating: Central Furnace, Gas / Cooling: Rooftop Package Unit, Capacity $< 54$ kBtu/h, Air-Cooled Condenser / Single Zone               |
| 1 | HP-1/ACCU-1: Cooling: Split System, Capacity $< 54$ kBtu/h, Air-Cooled Condenser / Single Zone   |
| 1 | GUH-1: Heating: Unit Heater, Gas   |

### Section 4: Requirements Checklist

#### Requirements Specific To: RTU-1 :

- 1. Newly purchased heating equipment meets the heating efficiency requirements
- 2. Equipment minimum efficiency: Rooftop Package Unit: 9.5 EER
- 3. Integrated air economizer required

#### Requirements Specific To: RTU-2 :

- 1. Newly purchased heating equipment meets the heating efficiency requirements
- 2. Equipment minimum efficiency: Rooftop Package Unit: 9.5 EER
- 3. Integrated air economizer required

#### Requirements Specific To: RTU-3 :

- 1. Equipment minimum efficiency: Duct Furnace (Gas): 80% Ec
- 2. Equipment minimum efficiency: Rooftop Package Unit: 12.0 SEER

#### Requirements Specific To: RTU-4 :

- 1. Newly purchased heating equipment meets the heating efficiency requirements

- 2. Equipment minimum efficiency: Rooftop Package Unit: 12.0 SEER

**Requirements Specific To: HP-1/ACCU-1 :**

- 1. Equipment minimum efficiency: Split System: 12.0 SEER

**Requirements Specific To: GUH-1 :**

- 1. Equipment minimum efficiency: Unit Heater (Gas): 80% Ec

**Generic Requirements: Must be met by all systems to which the requirement is applicable:**

- 1. Load calculations per 2001 ASHRAE Fundamentals
- 2. Plant equipment and system capacity no greater than needed to meet loads
  - Exception: Standby equipment automatically off when primary system is operating
  - Exception: Multiple units controlled to sequence operation as a function of load
- 3. Minimum one temperature control device per system
- 4. Minimum one humidity control device per installed humidification/dehumidification system
- 5. Automatic Controls: Setback to 55 degrees F (heat) and 85 degrees F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
  - Exception: Continuously operating zones
  - Exception: 2 kW demand or less, submit calculations
- 6. Automatic shut-off dampers on exhaust systems and supply systems with airflow >3,000 cfm
- 7. Outside-air source for ventilation; system capable of reducing OSA to required minimum
- 8. R-5 supply and return air duct insulation in unconditioned spaces R-8 supply and return air duct insulation outside the building R-8 insulation between ducts and the building exterior when ducts are part of a building assembly
  - Exception: Ducts located within equipment
  - Exception: Ducts with interior and exterior temperature difference not exceeding 15 degrees F.
- 9. Ducts sealed - longitudinal seams on rigid ducts; transverse seams on all ducts; UL 181A or 181B tapes and mastics
- 10. Mechanical fasteners and sealants used to connect ducts and air distribution equipment
- 11. Hot water pipe insulation: 1 in. for pipes <=1.5 in. and 2 in. for pipes >1.5 in. Chilled water/refrigerant/brine pipe insulation: 1 in. for pipes <=1.5 in. and 1.5 in. for pipes >1.5 in. Steam pipe insulation: 1.5 in. for pipes <=1.5 in. and 3 in. for pipes >1.5 in.
  - Exception: Piping within HVAC equipment.
  - Exception: Fluid temperatures between 55 and 105 degrees F.
  - Exception: Fluid not heated or cooled.
  - Exception: Runouts <4 ft in length.
- 12. Operation and maintenance manual provided to building owner
- 13. Balancing devices provided in accordance with IMC 603.15
- 14. Thermostatic controls have 5 degrees F deadband
  - Exception: Thermostats requiring manual changeover between heating and cooling
  - Exception: Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction.
- 15. Stair and elevator shaft vents are equipped with motorized dampers

**Section 5: Compliance Statement**

*Compliance Statement:* The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2005 Vermont Guidelines for Energy Efficient Commercial Construction requirements in COMcheck Version 3.6.0 and to comply with the mandatory requirements in the Requirements Checklist.

SARA CONNOLLY JOB CAPTAIN  
Name - Title

Jana Gully  
Signature

5.1.09  
Date



COMcheck Software Version 3.6.0

# Mechanical Requirements Description

## 2005 Vermont Guidelines for Energy Efficient Commercial Construction

The following list provides more detailed descriptions of the requirements in Section 4 of the Mechanical Compliance Certificate.

### Requirements Specific To: RTU-1 :

1. The specified heating equipment is covered by Federal minimum efficiency requirements. New equipment of this type can be assumed to meet or exceed ASHRAE 90.1 Code requirements for equipment efficiency.
2. The specified heating and/or cooling equipment is covered by ASHRAE 90.1 Code and must meet the following minimum efficiency:  
Rooftop Package Unit: 9.5 EER
3. An integrated air economizer is required for individual cooling systems over 65 kBtu/h in the selected climate. An integrated economizer allows simultaneous operation of outdoor-air and mechanical cooling.

### Requirements Specific To: RTU-2 :

1. The specified heating equipment is covered by Federal minimum efficiency requirements. New equipment of this type can be assumed to meet or exceed ASHRAE 90.1 Code requirements for equipment efficiency.
2. The specified heating and/or cooling equipment is covered by ASHRAE 90.1 Code and must meet the following minimum efficiency:  
Rooftop Package Unit: 9.5 EER
3. An integrated air economizer is required for individual cooling systems over 65 kBtu/h in the selected climate. An integrated economizer allows simultaneous operation of outdoor-air and mechanical cooling.

### Requirements Specific To: RTU-3 :

1. The specified heating and/or cooling equipment is covered by the ASHRAE 90.1 Code and must meet the following minimum efficiency:  
Duct Furnace (Gas): 80% Ec
2. The specified heating and/or cooling equipment is covered by ASHRAE 90.1 Code and must meet the following minimum efficiency:  
Rooftop Package Unit: 12.0 SEER

### Requirements Specific To: RTU-4 :

1. The specified heating equipment is covered by Federal minimum efficiency requirements. New equipment of this type can be assumed to meet or exceed ASHRAE 90.1 Code requirements for equipment efficiency.
2. The specified heating and/or cooling equipment is covered by ASHRAE 90.1 Code and must meet the following minimum efficiency:  
Rooftop Package Unit: 12.0 SEER

### Requirements Specific To: HP-1/ACCU-1 :

1. The specified heating and/or cooling equipment is covered by ASHRAE 90.1 Code and must meet the following minimum efficiency: Split System: 12.0 SEER

### Requirements Specific To: GUH-1 :

1. The specified heating and/or cooling equipment is covered by the ASHRAE 90.1 Code and must meet the following minimum efficiency:  
Unit Heater (Gas): 80% Ec

### Generic Requirements: Must be met by all systems to which the requirement is applicable:

1. Design heating and cooling loads for the building must be determined using procedures in the ASHRAE Handbook of Fundamentals or an approved equivalent calculation procedure.
2. All equipment and systems must be sized to be no greater than needed to meet calculated loads. A single piece of equipment providing both heating and cooling must satisfy this provision for one function with the capacity for the other function as small as possible, within available equipment options.
  - Exception: The equipment and/or system capacity may be greater than calculated loads for standby purposes. Standby equipment must be automatically controlled to be off when the primary equipment and/or system is operating.
  - Exception: Multiple units of the same equipment type whose combined capacities exceed the calculated load are allowed if they are provided with controls to sequence operation of the units as the load increases or decreases.
3. Each heating or cooling system serving a single zone must have its own temperature control device.
4. Each humidification system must have its own humidity control device.

5. d) have a battery back-up capable of maintaining programmed settings for at least 10 hours without power.
  - Exception: A setback or shutoff control is not required on thermostats that control systems serving areas that operate continuously.
  - Exception: A setback or shutoff control is not required on systems with total energy demand of 2 kW (6,826 Btu/h) or less.
6. Outdoor-air supply systems with design airflow rates >3,000 cfm of outdoor air and all exhaust systems must have dampers that are automatically closed while the equipment is not operating.
7. The system must supply outside ventilation air as required by Chapter 4 of the International Mechanical Code. If the ventilation system is designed to supply outdoor-air quantities exceeding minimum required levels, the system must be capable of reducing outdoor-air flow to the minimum required levels.
8. c) When ducts are located within exterior components (e.g., floors or roofs), minimum R-8 insulation is required only between the duct and the building exterior.
  - Exception: Duct insulation is not required on ducts located within equipment.
  - Exception: Duct insulation is not required when the design temperature difference between the interior and exterior of the duct or plenum does not exceed 15 degrees F.
9. All joints, longitudinal and transverse seams, and connections in ductwork must be securely sealed using weldments; mechanical fasteners with seals, gaskets, or mastics; mesh and mastic sealing systems; or tapes. Tapes and mastics must be listed and labeled in accordance with UL 181A or UL 181B.
10. Mechanical fasteners and seals, mastics, or gaskets must be used when connecting ducts to fans and other air distribution equipment, including multiple-zone terminal units.
  - Exception: Pipe insulation is not required for runout piping not exceeding 4 ft in length and 1 in. in diameter between the control valve and HVAC coil.
11. d) complete narrative of how each system is intended to operate.
12. Each supply air outlet or diffuser and each zone terminal device (such as VAV or mixing box) must have its own balancing device. Acceptable balancing devices include adjustable dampers located within the ductwork, terminal devices, and supply air diffusers.
13. Thermostats controlling both heating and cooling must be capable of maintaining a 5 degrees F deadband (a range of temperature where no heating or cooling is provided).
  - Exception: Deadband capability is not required if the thermostat does not have automatic changeover capability between heating and cooling.
  - Exception: Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction.
  - Exception: Ventilation systems serving unconditioned spaces.