

**GRATTAN TOWNSHIP**  
**KENT COUNTY, MICHIGAN**  
12050 Old Belding Road, Belding, MI 48809  
Phone (616)-691-8450 Fax (616)-691-8804

**BUILDING PERMIT INFORMATION CHECKLIST**

The following materials and documents are required in order for you to obtain a Building Permit:

**1. Completed Zoning Permit Application**

A. Zoning application must be approved before a building permit will be issued

**2. Completed Building Permit Application**

- A. Must be complete in full
- B. A detailed site diagram

**3. Proof of Parcel Ownership**

A. Permanent Parcel # and address from Kent County Road Commission indicating that your parcel is legally split

**4. Survey Drawings of Job Site if Available**

**5. Two Complete Sets of Construction Plans Drawn to Scale (one set will be returned to be kept at the job site) Plan Shall Include:**

- A. Foundations with depth of footing
- B. All significant elevations (front & side views)
- C. Floor plans for all floors, including basement
- D. Cross-section of one wall from footing to peak
- E. North elevation identified as (N)

**6. A Septic/Water Well Permit Must Be Obtained From:**

<b>Kent County Health Department</b>	<b>OR</b>	<b>If connecting to Township Sewer:</b>
700 Fuller NE Grand Rapids, MI 49505		Obtain additional required
(616) 632 6900		information from Township.

**7. Driveway/Highway Permit From:**

**Kent County Road Commission - (616) 242-6920**

**8. A Truss Diagram**

Engineered truss diagrams are required for any plans that call for engineered trusses. The diagram can be obtained from your truss supplier.

## 9. 2015 Michigan Energy Code Compliance

Your compliance report must be submitted at the time of the application, where applicable.

## 10. Soil Erosion and Sedimentation Pollution Control Permit

State law requires a permit if your job site is within 500 feet of a lake or stream, or if over (1) acre of land is cleared. Permits are obtained from the Kent County Road Commission at (616) 242-6910.

Your building permit is subject to zoning approval based on local zoning ordinance provisions. Normally a building permit may be obtained when all documents and materials are presented to the building inspector and zoning approval is granted.

It is the permit holder's responsibility to arrange access to the inspection site. Please see attached list to schedule an inspector: \*

Building Inspector, Casey Patterson	(616) 691 -8450 – <i>Call Office to Schedule</i>
Electrical Inspector, Jim Thorington	C: (616) 255-6502
Plumbing Inspector, Jeff Biegalle	C: (616) 438-5957
Mechanical Inspector, Jeff Biegalle	C: (616) 438-5957

**Any Questions - Call the Grattan Township Offices at  
(616) 691- 8450 Monday - Thursday 9:00 AM - 4:00 PM  
(Closed on Fridays)**

You must have your permit before any construction begins. There will be an administration fee charged if work is started before application is made. Permit is issued by the Building Inspector.

\* You will need to call for inspections during the Building process - Please call 48 hours before you require the inspection. Grattan Office schedules the Building Inspector's inspections. Contact Mechanical, Plumbing and Electrical Inspector's directly to schedule.

Occupancy Permit is issued upon approved completion of the final inspection. You are not to move into your house unless this permit has been issued. This is in Accordance with the Michigan State Building Code.

## PERMIT HOLDER RESPONSIBILITIES

Part of the building process is identifying the job location and having inspections done at specific stages of construction. Before the inspector can begin inspecting the job the following must be done by the permit holder:

- 1. The lot and the building location must be staked so the inspector can verify the location of the forms and footings relative to the lot lines.
- 2. The permit must be posted and visible from the road.
- 3. The location must be identified by a street number or a sign indicating the owner's or contractor's name (hand painted #'s or signs are fine)

## INSPECTIONS

There are a number of inspections required in each of the four codes (building, electrical, mechanical & plumbing); therefore, you must call the inspectors when you are ready for each type of inspection. Work must not proceed before the job is inspected and approved to continue. The required visual inspections are:

### BUILDING: (Grattan Office schedules inspections for the Building Inspector)

FOOTING - between the time the forms for the footings are set and before any sills are attached. We would like to inspect prior to any concrete being poured, because if the forms are in the wrong place it is MUCH cheaper to move forms than concrete. If you do not have an approval of the forms, you pour at YOUR OWN RISK.

FOUNDATION - before back filling when the walls are complete; damp proofed or waterproofed, and the foundation drains are completely installed

ROUGH-IN - when framing is complete, BEFORE dry walling and AFTER electrical, plumbing and mechanical inspections

FINAL - when project is complete and ready for occupancy and AFTER electrical, plumbing and mechanical final

### ELECTRICAL:

TEMPORARY SERVICE - when temporary service is complete and ready for hook-up

PERMANENT SERVICE - when permanent service is completed and ready for hook-up

ROUGH-IN - BEFORE insulating or dry walling, when wiring which will be hidden is complete

FINAL - when all fixtures are set, plates are on and the building is ready to be occupied

### MECHANICAL:

UNDERGROUND - if anything is to be covered by dirt or concrete

ROUGH-IN - anything in walls (including ducts or chimneys) BEFORE dry walling

FINAL - when furnace and/or air conditioning is completed and operating and you are ready to occupy

### PLUMBING:

UNDERGROUND - when pipes are all run in ground, BEFORE you backfill or pour concrete

ROUGH-IN - when pipes are all run in wall, BEFORE dry walling, also drainage lines in ceiling of basement BEFORE covering

FINAL - when fixtures are all set and operating and you are ready to occupy

Please, remember each job is different and goes at a different pace. Therefore, we have no idea when you are ready for any inspections unless you call and let the inspectors know. Also, please make sure that you are actually ready for inspection. **If an inspection is called for and the job is not ready, a re-inspection fee will be charged.**

**Thank you and good luck with your project!**

# GRATTAN TOWNSHIP ZONING APPLICATION

12050 Old Belding Road, Belding, MI 48809  
(616) 691-8450 Fax: (616) 691-8804

**Zoning Application Fee: \$50.00 (Payable w/ Building Permit fee upon Zoning approval)**

The Zoning Application must be filled out completely and must be approved before a building permit will be issued. Use the attached page to draw a site plan showing the following items:

1. Dimension of the lot and/or acreage (all sides)
2. The location, with distances to the lot lines, of existing and proposed structures
3. The dimensions of all existing and proposed structures
4. The distance between all existing structures
5. The location of all roads bordering or on the property
6. The location of any power or gas lines on the property
7. The location of any lakes, rivers, stream or wetlands on or near the property
8. The location of any easements on the property
9. An arrow indicating direction of north
10. Setbacks:

Front \_\_\_\_\_ Rear \_\_\_\_\_

Side (a) \_\_\_\_\_ (b) \_\_\_\_\_

11. Lot dimensions: \_\_\_\_\_ 12. Area: \_\_\_\_\_

13. Zoning District \_\_\_\_\_

DATE: \_\_\_\_\_

Applicant Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone #: \_\_\_\_\_ Email: \_\_\_\_\_

Permanent Parcel # 41-12 - \_\_\_\_\_

Address of Site Location: \_\_\_\_\_

**Description of Proposed**

**Use** \_\_\_\_\_

**Zoning Approval (office use only)**

Approved \_\_\_\_\_

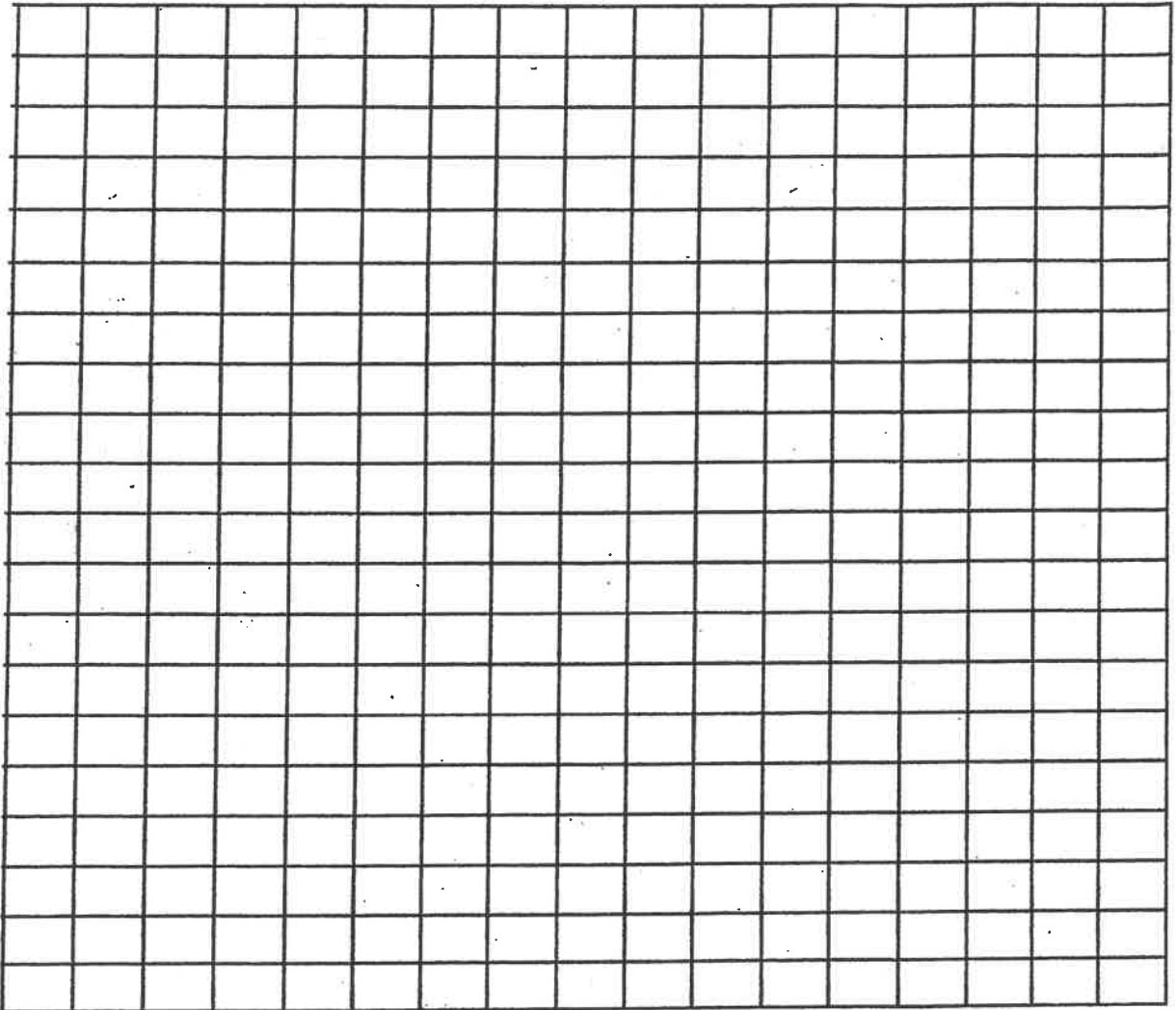
Denied \_\_\_\_\_

Reason for Denial : \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

# Site Plan Diagram



# APPLICATION FOR GRATTAN TOWNSHIP BUILDING PERMIT

12050 OLD BELDING ROAD, BELDING, MI 48809  
(616) 691-8450 FAX (616) 691-8804

BUILDING INSPECT.

Casey Patterson  
O: 616-691-8450  
**Mon Lunchtime**  
**Thurs Early morning**

ELECTRICAL INSPECT.

Jim Thorington  
C: 616-255-6502

PLUMBING & MECHANICAL INSP.

Jeff Biegalle  
C: 616-438-5957

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DATE: \_\_\_\_\_

PERMIT # \_\_\_\_\_

BUILDING SITE ADDRESS: \_\_\_\_\_

PARCEL # 41-12-\_\_\_\_-\_\_\_\_-\_\_\_\_

BETWEEN WHAT CROSS STREETS: \_\_\_\_\_ AND \_\_\_\_\_

**APPLICANT/CONTRACTOR:** \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

ZIP: \_\_\_\_\_

APPLICANT/CONTRACTOR E-MAIL: \_\_\_\_\_

**OWNER'S NAME IF DIFFERENT THAN ABOVE:** \_\_\_\_\_

ADDRESS: \_\_\_\_\_

## BUILDING INFORMATION

LOT SIZE: \_\_\_\_\_ SQUARE FOOT OF BUILDING: \_\_\_\_\_

BUILDING DIMENSIONS: \_\_\_\_\_ FT WIDE BY \_\_\_\_\_ FT LONG \_\_\_\_\_ FT HIGH

ESTIMATED COST: \$ \_\_\_\_\_ TYPE OF BUILDING: \_\_\_\_\_  
(house, garage, pole bldg, etc)

TYPE OF FOUNDATION: \_\_\_\_\_

**\*\*\* ADDITIONAL INFORMATION MUST BE SUBMITTED WITH THIS APPLICATION \*\*\***

**SEE BUILDING PERMIT INFORMATION CHECKLIST**

Applicant is responsible for the payment of all fees and charges applicable to this application and must provide the following information:

\_\_\_\_\_ phone # \_\_\_\_\_  
Name  
\_\_\_\_\_ fax # \_\_\_\_\_  
Address  
\_\_\_\_\_ cell # \_\_\_\_\_

I hereby certify 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 we agree to conform to all applicable laws of the State of Michigan. All information submitted on this application is accurate to the best of my knowledge.

Section 23a of the State Construction Code Act of 1972, Act No. 230 of the Public Acts of 1972, being Section 125.1523a of the Michigan Compiled Laws, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of Section 23a are subject to civil fines.

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Application Date

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**Local governmental agency to complete this section below**

**Environmental control approvals**

**Approved**

Zoning \_\_\_\_\_  
Soil Erosion \_\_\_\_\_  
Flood Zone \_\_\_\_\_  
Water Supply \_\_\_\_\_  
Septic System \_\_\_\_\_  
Variance Granted \_\_\_\_\_  
Other \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Building Permit #** \_\_\_\_\_

**Approved by:**

**Issue Date** \_\_\_\_\_

**Permit Fee** \_\_\_\_\_

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Title**

**GRATTAN TOWNSHIP  
TO ALL CONTRACTORS WORKING IN GRATTAN TOWNSHIP**

All contractors are required to register their new license each year. This registration form should be read, signed and returned.

This contractor is aware of the following Grattan Township requirements:

1. A copy of the contractor's license must accompany this registration.
2. Only registered licensed contractors can obtain permits.
3. Permit is required prior to commencement of work.
4. Proper street address obtained from Kent County Road Commission must be on all permits and be used when requesting inspections.
5. Permit is valid only when received and accepted by inspection personnel.
6. No work shall be covered or concealed without inspection and approval.
7. Each contractor is responsible for arranging his own inspections.
8. Final inspections and Certificate of Occupancy is required for all projects before occupancy occurs.
9. Homeowners can obtain a Homeowner Permit for a single-family dwelling in which he lives or is about to occupy for not less than one (1) year.
10. This registration may be revoked by Grattan Township if at any time code or ordinance violations are not corrected within 30 days.

License Holder's Signature \_\_\_\_\_ Date \_\_\_\_\_

Contractor's Business Name \_\_\_\_\_

License Holder's Name \_\_\_\_\_

Business Address \_\_\_\_\_ City \_\_\_\_\_ St \_\_\_\_\_ Zip \_\_\_\_\_

Business Phone # \_\_\_\_\_ Fax# \_\_\_\_\_

Mobile Phone # \_\_\_\_\_ Email \_\_\_\_\_

Contractor's License # \_\_\_\_\_ License Expires \_\_\_\_\_

Contractor's License Issued by \_\_\_\_\_

Contact Person's Name \_\_\_\_\_ Phone # \_\_\_\_\_

Workman's Comp carrier \_\_\_\_\_ Policy # \_\_\_\_\_

Issue Date \_\_\_\_\_ Expiration Date \_\_\_\_\_

Liability Insurance carrier \_\_\_\_\_ Policy # \_\_\_\_\_

Issue Date \_\_\_\_\_ Expiration Date \_\_\_\_\_

Federal ID # \_\_\_\_\_ MESC # \_\_\_\_\_





**GRATTAN TOWNSHIP  
STATEMENT OF UNDERSTANDING**

I the undersigned agree and understand it is my responsibility as applicant for this permit to call the township inspectors for all inspections. Final Inspections are necessary before the Certificate of Occupancy can be issue by the Township.

Failure to do so will result in a citation answerable in 63<sup>rd</sup> District Court – Rockford, MI 49341. The fine for such a violation is not less than \$100 nor more than \$500 for the first offense.

**PERMIT TYPE:**

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

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

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

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

General Contractor (if applicable)  
Applicant Signature                      Date \_\_\_\_\_

\_\_\_\_\_  
(signature)

\_\_\_\_\_  
(print name)

## Certificate of Occupancy Deposit

Grattan Township requires a \$500.00 Certificate of Occupancy Deposit to insure compliance with the Michigan Building Code Section 110.

This deposit will be refunded to the applicant within 7 days after the issuance of Certificate-of-Occupancy. This occurs as long as the building or work for which the permit was issued has not been occupied and if all outstanding fees have been paid.

In the event the Building Inspector determines the building has been occupied prior to the issuance of "C of O" the deposit will be forfeited. (Forfeiture of the deposit will in no way constitute failure to comply with the code).

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Name: \_\_\_\_\_ Permit #: \_\_\_\_\_

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

\_\_\_\_\_

Date Paid: \_\_\_\_\_

Cash       Check # \_\_\_\_\_       Money Order

Worksite address: \_\_\_\_\_

Deposit returned: \_\_\_\_\_ Twp Ck # \_\_\_\_\_  
(date)

# GRATTAN TOWNSHIP

12050 Old Belding Road, Belding, MI 48809  
(616) 691-8450 Fax: (616) 691-8804

www.grattantownship.org

## Grattan Township Building Department

### 2015 Michigan Energy Code – Compliance Worksheet

Builder: \_\_\_\_\_ Job Address: \_\_\_\_\_

Check the method of compliance. (provide additional documents for methods 2 and 3)

1.  **Building Envelope: (R-value prescriptive – complete form)**

	Type of Insulation	R-Value	Required R-Value
Wall Assembly			R -20 or 13+5
Fenestrations			R-3. 125 (U=.32)
Roof/Ceiling			R -38
Floors over unconditioned spaces			R -30
Slabs on grade			R -10, 2 ft.
Crawl space walls			R -15/ 19
Basement walls – cavity			R -13
Basement walls - continuous			R -10

2.  **Total UA alternative (must meet ASHRAE fundamentals)**

3.  **Performance-based compliance (must meet mandatory requirements)**

Please note some of the mandatory requirements: (for all requirements see the 2015 MRC – Chapter 11)

1. A permanent certificate listing the installed R and U values must be applied to the electrical panel.
2. The building thermal envelope shall be sealed to limit infiltration. This must be completed prior to the insulation inspection. A blower door test of less than 4 ACH is required.
3. Building framing cavities shall not be used as ducts or plenums.
4. Duct leakage testing is required where located outside the thermal envelope.
5. A minimum of 75% of lamps in fixtures must be high efficacy.

Builder: \_\_\_\_\_ Date: \_\_\_\_\_

- Note:
1. An inspection will be required after wall insulation and before drywall.
  2. For blown attic insulation an installers certificate showing initial thickness, coverage area, and number of bags used must be provided before final inspection.
  3. A certificate of occupancy will not be issued until the requirements of this code are met.

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## Grattan Township Building Department

### 2015 Michigan Residential Code Energy Worksheet for New Single-family Residential Building

To facilitate permit issuance and enable the plan reviewer to verify compliance with the applicable energy efficiency provisions of the 2015 Michigan Residential Code, please complete this form (Parts I, II and III) and submit it along with your application for a new single-family residential building permit.

<b>Project Address:</b>	
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#### Part I - Mandatory Provisions

The following requirements (see code for full text) apply to all new single-family residential buildings. Indicate that you understand and will comply with the following provisions by checking each box.

MRC Sec. #	Description	
		<input checked="" type="checkbox"/>
N1101.12.1 and 1.1	<p>For insulation products that do not have an identification mark from the manufacturer, the insulation installer shall provide a certification listing the type, manufacturer and R-value of insulation in each element of the building thermal envelope.</p> <p>For blown or sprayed insulation, the initial thickness, settled thickness, settled R-value, installed density, coverage area and number of bags shall be listed on the certification. In addition, markers shall be installed throughout attic spaces in accordance with N1101.12.1.1.</p> <p>For sprayed polyurethane foam insulation, the installed thickness of the areas covered and the R-value of the installed thickness shall be listed on the certification.</p> <p>Insulation certificates shall be submitted and approved by the Building Department prior to issuance of a Certificate of Occupancy.</p>	<input type="checkbox"/>
N1101.16	Prior to final inspection, a permanent energy code certificate shall be posted on or in the electrical distribution panel. Such certificate shall be on a label approved by the Building Department and include all information required by Section N1101.16.	<input type="checkbox"/>
N1102.4.1.2, N1105, or N1106	<p><b>Air Leakage Testing</b> - The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding the limits of the compliance path chosen. Testing shall be conducted by a certified independent third party.</p> <p>Testing shall be performed at any time after creation of all penetrations of the building thermal envelope and such testing shall be conducted in the manner outlined in Section N1102.4.1.2.</p> <p>A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.</p>	<input type="checkbox"/>

**Air Leakage** - The components of the building thermal envelope as listed in Table N1102.4.1.1 shall be installed in accordance with manufacturer's installation instructions and the following criteria:

**TABLE N1102.4.1.1 (R402.4.1.1)  
AIR BARRIER AND INSULATION INSTALLATION**

N1102.4.1.1

COMPONENT	CRITERIA
Air barrier and thermal barrier	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope shall contain a continuous air barrier. Breaks or joints in the air barrier shall be sealed. Air-permeable insulation shall not be used as a sealing material.
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier sealed. Access openings, drop down stair, or knee wall doors to unconditioned attic spaces shall be sealed.
Walls	Corners and headers shall be insulated and the junction of the foundation and sill plate shall be sealed. The junction of the top plate and top of exterior walls shall be sealed. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier. Knee walls shall be sealed.
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.
Rim joists	Rim joists shall be insulated and include the air barrier.
Floors (including above-garage and cantilevered floors)	Insulation shall be installed to maintain permanent contact with underside of subfloor decking. The air barrier shall be installed at any exposed edge of insulation
Crawl space walls	Where provided in lieu of floor insulation, insulation shall be permanently attached to the crawlspace walls. Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.
Narrow cavities	Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that readily conforms to the available cavity space.
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be air tight, IC rated, and sealed to the drywall.
Plumbing and wiring	Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that readily conforms to available space shall extend behind piping and wiring.
Shower/tub on exterior wall	Exterior walls adjacent to showers and tubs shall be insulated and the air barrier installed separating them from the showers and tubs.
Electrical/phone box on ext. walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the subfloor or drywall.
Fireplace	An air barrier shall be installed on fireplace walls.

N1102.4.2	<b>Fireplaces</b> – New wood-burning masonry fireplaces shall have tight-fitting flue dampers and outdoor combustion air.	<input type="checkbox"/>	<input type="checkbox"/> NA
N1102.4.3	<b>Fenestration Air Leakage</b> – Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot, and swinging doors on more than 0.5 cfm per square foot, when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.  <b>Exceptions:</b> Site built windows, skylights and doors.  <b>Labels shall remain on windows until after insulation inspection.</b>	<input type="checkbox"/>	
N1102.4.4	<b>Recessed Lighting</b> – Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm when tested in accordance with ASTM E283 at a 1.57 psf pressure differential.  <b>All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.</b>	<input type="checkbox"/>	
N1103.1	<b>Controls</b> - At least one thermostat shall be provided for each separate heating and cooling system	<input type="checkbox"/>	
N1103.1.1	<b>Programmable thermostat.</b> Where the primary heating system is a forced-air furnace, at least one thermostat per dwelling unit shall be capable of controlling the heating and cooling system on a daily schedule to maintain different temperature set points at different times of the day.  This thermostat shall include the capability to set back or temporarily operate the system to maintain zone temperatures down to 55°F or up to 85°F. The thermostat shall initially be programmed with a heating temperature set point no higher than 70°F and a cooling temperature set point no lower than 78°F.	<input type="checkbox"/>	
N1103.1.2	<b>Heat pump supplementary heat</b> - Heat pumps having supplementary electric resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.	<input type="checkbox"/>	<input type="checkbox"/> NA
N1103.2.2	<b>Sealing</b> - Ducts, air handlers, and filter boxes shall be sealed with approved sealants, including joints and seams.  <b>Exceptions:</b> <ol style="list-style-type: none"> <li>1. Air-impermeable spray foam products may be applied without additional joint seals.</li> <li>2. Where a duct connection is made that is partially inaccessible, 3 screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect.</li> <li>3. Continuously welded and locking-type longitudinal joints and seams, of other than snap- lock and button-type per Section M1601.4.1, in ducts operating at static pressures less than 2 inches of water column pressure classification shall not require additional closure systems.</li> </ol>	<input type="checkbox"/>	

N1103.2.2	Ducts and air handlers located outside the building thermal envelope or located within the building envelope assembly – Duct tightness shall be verified by either a Rough-in or Post Construction pressure test in accordance with Section N1103.2.2. A written report of the test results, signed by the party conducting the test, shall be provided to the code official prior to the issuance of a certificate of occupancy.	<input type="checkbox"/>	<input type="checkbox"/> NA
N1103.2.3	Building Cavities – Building framing cavities shall not be used as supply ducts or plenums.	<input type="checkbox"/>	
N1103.3	Mechanical system piping insulation - Mechanical system piping capable of carrying fluids above 105°F or below 55°F shall be insulated to a minimum of R-3.	<input type="checkbox"/>	<input type="checkbox"/> NA
N1103.3.1	Protection of piping insulation. Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance, and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted as a protection method.	<input type="checkbox"/>	
N1103.4.1	Circulating hot water systems - Circulating hot water systems shall be provided with an automatic or readily accessible manual switch that can turn off the hot-water circulating pump when the system is not in use.	<input type="checkbox"/>	<input type="checkbox"/> NA
N1103.5	Mechanical ventilation - The building shall be provided with ventilation that meets the requirements of Section M1507 or with other approved means of ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.	<input type="checkbox"/>	
N1103.6	Heating and Cooling Equipment Sizing – Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies. A heating/cooling plan, Manual J calculations, equipment sizes and efficiencies, duct R values, and supporting documentation shall be submitted to the Inspector at the rough mechanical inspection. All information shall be kept with the furnace and available for Final Inspection.	<input type="checkbox"/>	
N1103.8	Snow melt system controls - Snow and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F, and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F.	<input type="checkbox"/>	<input type="checkbox"/> NA
N1103.9	Pools and in-ground permanently installed spas - Pools and in-ground permanently installed spas shall comply with Sections N1103.9.1 through N1103.9.3.	<input type="checkbox"/>	<input type="checkbox"/> NA
N1104.1	Lighting equipment - A minimum of 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficiency lamps or a minimum of 75 percent of the permanently installed lighting fixtures shall contain only high-efficiency lamps. Exception: Low-voltage lighting	<input type="checkbox"/>	
N1104.1.1	Gas Lighting equipment - Fuel gas lighting systems shall not have continuously burning pilot lights.	<input type="checkbox"/>	<input type="checkbox"/> NA



## Part II - Compliance Paths

In addition to the mandatory requirements previously noted, energy code provisions require you to choose one of four alternative compliance paths to demonstrate code compliance. Indicate the path you choose below by checking one of the following boxes and completing the instructions.

**Prescriptive (as prescribed by the code)**

If you choose to use the prescriptive method of compliance, you may demonstrate compliance by completing the attached Prescriptive Compliance Report Form. Sign the compliance statement below and attach a copy of the completed Prescriptive Compliance Report Form along with this form when submitting for a building permit. Please note that the prescriptive insulation materials and methods shown on the building plans shall match what is indicated on the compliance report.

**Total UA Alternative (prescriptive trade-off method)**

Compliance with the Total UA Alternative method may be demonstrated by completing a compliance report using *REScheck* software provided free of charge at [energycodes.gov](http://energycodes.gov). At present, *REScheck* does not offer a code edition incorporating State of Michigan amendments. However, you may use the 2015 International Energy Conservation Code (2015 IECC) since it meets or exceeds Michigan requirements. Please use "Utica, Michigan" for location criteria. Sign the compliance statement below and attach a copy of a signed compliance report, including the inspection checklist, with this form when submitting for a building permit.

Please note that the building plans shall show the same materials and methods you use to complete the *REScheck* form. For example, if you use basement wall insulation in *REScheck*, such insulation should be clearly indicated on the building plans too.

**Simulated Performance Alternative (performance analysis)**

Certain commercially available compliance software (e.g. REM/RATE, etc.) may be used to demonstrate that the proposed construction will have an annual energy cost that is less than or equal to the energy cost of the standard reference design. Please see Section N1105 of the code for specific criteria.

Such software shall generate a compliance report that documents that the proposed design complies and shall include information outlined in Section N1105. Sign the compliance statement below and attach a copy of the completed compliance report with this form when submitting for a building permit.

**Above Code Programs**

Compliance with certain energy efficiency programs such as Energy Star Version 3 and ICC 700-2012 "silver" are acceptable. See Section N1101.7 and N1106 for specific provisions. Provide a compliance report that documents that the proposed design meets program requirements. Sign the compliance statement below and attach a copy of the completed compliance report with this form when submitting for a building permit.

## Part III – Compliance Statement

I have read and completed the above form and will insure that the actual construction complies with Chapter 11 of the 2015 Michigan Residential Code.

Project Applicant:	Signature _____	Date _____
	Printed Name _____	