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P.O. BOX 178 • 114 WOODHULL STREET • LAINGSBURG, MICHIGAN 48848-0178  
PHONE (517) 651-5374 • FAX (517) 651-5604 • www.laingsburg.us

# City of Laingsburg

Shiawassee County  
Laingsburg, Michigan 48848  
Application for Building Permit

Section # \_\_\_\_\_ Date \_\_\_\_\_

The undersigned in compliance with the laws of the State of Michigan and the ordinance of the City of Laingsburg hereby makes application under the above mention laws, ordinances and regulations hereby set forth for permission to;

Build, Demolish, Move \_\_\_\_\_ Building Size \_\_\_\_\_

Address \_\_\_\_\_ Owners Name \_\_\_\_\_

Contractor \_\_\_\_\_ License # \_\_\_\_\_ Expires \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone # \_\_\_\_\_

Workman's Comp Carrier \_\_\_\_\_

Internal Rev. Code # \_\_\_\_\_

Or reason for exemption

Michigan Employment Comp. # \_\_\_\_\_

Or reason for exemption

### Specifications

Set Back \_\_\_\_\_ Side \_\_\_\_\_ Rear \_\_\_\_\_

Roof Type \_\_\_\_\_ No. Rooms \_\_\_\_\_ No. Bath \_\_\_\_\_

Footing \_\_\_\_\_ Basement \_\_\_\_\_

Construction \_\_\_\_\_ Garage \_\_\_\_\_

Drywall \_\_\_\_\_ Plaster \_\_\_\_\_ Fireplace \_\_\_\_\_

Chimney Type \_\_\_\_\_ Siding \_\_\_\_\_

Rafters \_\_\_\_\_ OC \_\_\_\_\_ Studding \_\_\_\_\_ OC \_\_\_\_\_

Floor Joist \_\_\_\_\_ OC \_\_\_\_\_ Sewer \_\_\_\_\_

Water \_\_\_\_\_ Detectors \_\_\_\_\_ Fire \_\_\_\_\_ Smoke \_\_\_\_\_

Approved \_\_\_\_\_

Building Inspector

Cert of Occupancy # \_\_\_\_\_ Permit # \_\_\_\_\_ Fee \_\_\_\_\_

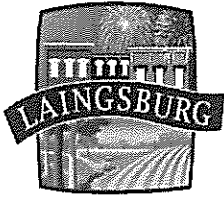
Est. Cost \_\_\_\_\_ Contractor must sign application

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 perform work on a residential building or residential structure. Violators of Section 23 are subject to civil fines.

Signed (Contractor) \_\_\_\_\_

There will be a charge of \$25.00 on any returned checks



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Accessory Use Building or Structure Zoning Permit Application  
Detached: Sheds, Carports, Garages, Outbuilding, Swimming Pools, Etc.  
 \$25 Fee

Property Owner's Name/Address:

Applicant's Name/Address:

	Phone #:

Address of Property where accessory will be placed:

Contractor Name/Address:

	Phone #:

Type of Structure \_\_\_\_\_ Proposed Use \_\_\_\_\_

Distance from other structures (10 foot min)

House \_\_\_\_\_ Others \_\_\_\_\_ (Show drawing)

Distance from lot lines: Front \_\_\_\_\_ Rear \_\_\_\_\_ Side \_\_\_\_\_  
 (Side and Rear Min 10 Ft.)

Sq Feet of Rear yard \_\_\_\_\_ Sq Feet of House \_\_\_\_\_

Sq Feet of proposed accessory \_\_\_\_\_

Size of Accessory Height \_\_\_\_\_ Weight \_\_\_\_\_ Length \_\_\_\_\_

Provide drawing of placement of accessory on property. Please note locations of house, other buildings or structures locations, drives, sidewalks, etc.

Approved	Approved
Date: _____	Date: _____
Zoning Administrator	Building Official

Fee \_\_\_\_\_ Paid on \_\_\_\_\_ Permit # \_\_\_\_\_



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## Contractor Registration

City of Laingsburg Building Inspections Department  
No Fee Required

Date of Registration \_\_\_\_\_

Company Name \_\_\_\_\_

Licensed Person \_\_\_\_\_

Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone Number (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ Fax Number (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Cell Number (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Type of License \_\_\_\_\_

License Number \_\_\_\_\_ Master Number if Applicable \_\_\_\_\_

Expiration Date/s \_\_\_\_\_

Fed I.D. # \_\_\_\_\_

Workman's Comp Carrier \_\_\_\_\_ (If Required)

Social Security Number \_\_\_\_\_

Divers License Number \_\_\_\_\_

Date of Birth \_\_\_\_\_

Attest: The information given is complete, true, and correct. I understand that work is required to be done in accordance with the Michigan Construction Code, and that I am responsible for scheduling all necessary inspections.

Licensee Signature \_\_\_\_\_

All contractor registration forms must be accompanied by a copy of your  
contractor's license and driver's license

## **GARAGE CHECKLIST**

Please use the following checklist as a guide for the materials needed to issue a zoning permit and a building permit for a Garage. All information must be complete and provided to the City in order to issue the appropriate permits and approvals.

- Completed zoning permit
- Proof of Ownership: a recorded land contract or deed with a legal description of the property
- An acceptable, legible plot plan that shows property dimensions including all setbacks. Setbacks from other structures on the property. Also show all other overhead wires, drains, water edges, etc.
- A soil erosion permit from the Shiawassee County Drain Commission if 100 feet from water or 500 feet from the drain – or an Affidavit for a waiver.
- A completed building permit application
- A Contractor Registration Form
- A Roof Loading Data Sheet
- Cross Section Detail Form
- A complete set of building and foundation plans
- A Michigan Uniform Energy Code Form

SHIAWASSEE COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH DIVISION

Surbeck Building - 201 N. Shiawassee Street  
CORUNNA, MICHIGAN 48817  
PHONE: (989) 743-2390 FAX: (989) 743-2413  
Web Address: <http://health.shiawassee.net>

GEORGE J. PICHELTE, J.D.  
Director/Health Officer  
DENNIS CHERNIN, M.D., M.P.H.  
Medical Director

GENE PARZ, R.S., M.P.H.  
Director of Environmental Health

AFFIDAVIT FOR SOIL EROSION SEDIMENTATION CONTROL PERMIT WAIVER

Pursuant to Part 91, Soil Erosion Sedimentation and Control, of Act 451 of the Public Acts of 1994, as amended.

Owner's name: \_\_\_\_\_

Mailing address: \_\_\_\_\_

Property address: \_\_\_\_\_

Phone number: \_\_\_\_\_

Legal Description: Section \_\_\_\_\_ T. \_\_\_\_\_ N. R. \_\_\_\_\_ E. \_\_\_\_\_ Township \_\_\_\_\_

Description of Earth Change Project: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

I, \_\_\_\_\_ as the property owner, do hereby certify that the earth change at the above referenced property will disturb less than 225 square feet and the earth change will not contribute sediment to lakes or streams.

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

-----AGENCY USE ONLY-----

This request for a SESC permit waiver has been reviewed by SCHD and is hereby issued in accordance with Rule 1705 (2) of Part 91.

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_



Serving You, Your Family & Our Community

SHIAWASSEE COUNTY HEALTH DEPARTMENT  
201 N. Shiawassee St., Surbeck Bldg., Corunna, MI 48817  
Website <http://health.shiawassee.net>

Katie Plashek, R.S.  
Registered Environmental Health Sanitarian

## Soil Erosion and Sedimentation Control

(All earth changes will require review)

When might a permit from the Environmental Health Division be required?

1. If your project involves **disturbing soils** over an area of **one or more acres**.

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2. If your project is **within 500 feet** of a lake, stream, river, drain, or other water body.
3. All projects involving earth moving activities that disturb **more than 225 square feet** (an SESC waiver **might** be issued for projects disturbing **less than 225 square feet**).
4. If your construction project is for a **permanent dwelling or a large-scale addition** to an existing home.

If you answered **yes to any of the questions** a SESC permit or verification that no permit is required will be needed as part of your Zoning permit application.

Zoning applications for projects such as decks, porches, swimming pools, small additions, and small accessory buildings **may** be reviewed in house. This **does not prohibit** an SCHED representative from conducting a site visit to determine whether or not a SESC permit will be required.

## Roof Loading Data Sheet

Authority: Act 230 PA 1972, as amended

Completion: Completed prior to application for plan review and building permit. This form is a voluntary form used to assist in the permit approval process.

Unfunctional information should be included in this space

Applicant's Name:		Date:
Applicant's Address:		Permit Number:
City:	State:	Zip:
Applicant's Signature:		
Job Location:		
Address:		
Township/Village/City:		County:

**THIS FORM SHOULD BE COMPLETED BY THE PERMIT APPLICANT, OR DESIGN PROFESSIONAL**

**FOR C<sub>e</sub>, C<sub>t</sub>, AND I, PLACE AN "X" IN THE APPROPRIATE BOX THAT BEST DESCRIBES THE STRUCTURE.**

Ground Exposure, P<sub>g</sub> = \_\_\_\_\_

From Figure R301.2(5) MRC or Figure 1608.2 MBC

Exposure		Exposure Factor C <sub>e</sub>					
		Fully Exposed <sup>1</sup>		Partially Exposed <sup>2</sup>		Sheltered <sup>3</sup>	
A	Large city center with at least 1/2 the buildings exceeding 70 ft. in height.	N/A		1.1		1.3	
B	Urban and suburban areas, wooded areas or other terrain with closely spaced objects having the size of single-family dwellings or larger.	0.9		1		1.2	
C	Open terrain with scattered obstructions having heights less than 30 ft. (flat open country)	0.9		1		N/A	
D	Flat unobstructed areas exposed to wind flowing over open water for a distance of at least 1 mile. (i.e. Great Lakes.)	0.8		0.9		N/A	

<sup>1</sup>Fully Exposed: Roofs exposed on all sides with no shelter by terrain, higher structures, or trees.

<sup>2</sup>Partially Exposed: All roofs except those designated as "fully exposed" or "sheltered."

<sup>3</sup>Sheltered: Roofs located tight among conifers that qualify as obstructions.

### Thermal Factor C<sub>t</sub>

Thermal Condition <sup>4</sup>		C <sub>t</sub>
All structures except as listed below		1
Structures kept just above freezing and those with cold, ventilated roofs with an R factor of 25 or greater between the ventilated and heated spaces, such as attics		1.1
Unheated structures and those intentionally kept below freezing, such as seasonal building or storage buildings		1.2
Continuously heated greenhouse with a roof R-Value less than 2 and having an interior temperature maintained at about 50 degrees 3 ft above the floor during winter months and a temperature alarm system or an attendant to warn of a heating failure.		0.85

<sup>4</sup>These conditions shall be representative of the anticipated conditions during winter months for the life of the structure

### Importance Factor

Category		I
I	Building and other structures representing low hazard to human life, i.e.: Agricultural, Temporary, and Minor Storage Facilities.	0.8
II	All buildings except those listed in Categories III and IV.	1
III	Building and other structures representing substantial hazard to human life in the event of failure.	1.1
IV	Buildings and other structures designated as essential facilities.	1.2

### Attic Live Load

Entire Attic	Y/N
Specific Areas (if yes, list areas below)	Y/N
List Rooms:	

## ROOF DESIGN

### Issue

With the adoption of the Michigan Building Code (MBC) and Michigan Residential Code (MRC) in 2001, several questions have been raised regarding the application of the code provisions relating to roof snow loads.

In previous editions of the codes in effect in Michigan, the codes set forth specific requirements for roof loading. However, with the adoption of the MRC, some confusion has been raised regarding the methodology of determining roof loads for one- and two-family dwellings regulated by the MRC. In a number of instances, the design of roof truss systems has not reflected the dynamics of the site at which the system is installed. The MBC requires consideration for such items as exposure, thermal factors, and importance factors. While the MRC does not specifically identify these items as design considerations, the code requires compliance in engineered systems with accepted engineering practices.

To clarify this situation, responses to two questions are posed to offer clarification and guidance in the application of the Michigan Building Code and the Michigan Residential Code. The first question involves the application of loading criteria for snow loads. The second involves exposure factors.

It is the intent of this Technical Bulletin to provide guidance in the application of the code and to provide a means for local code officials to review the design to determine compliance with the applicable code provisions.

### Discussion

The Michigan Building Code references ASCE 7 – 98, Minimum Design Loads for Buildings and Other Structures, to determine the applicable loading criteria for roof structures. Section 1608.2 of the code provides for ground snow loads.

The Michigan Residential Code, while not directly referencing ASCE 7, can be interpreted that the standards for truss designs are based upon the criteria contained in this document. Section R801.2 of the MRC provides:

“Roof and ceiling construction shall be capable of accommodating all loads imposed according to Section R301 and of transmitting the resulting loads to the supporting structural elements.”

Section R802.2 provides:

“Roof-ceilings shall be designed and constructed in accordance with the provisions of this chapter and Figures R606.10(1), R606.10(2) and R606.10(3) or



# SHIAWASSEE COUNTY BUILDING DEPARTMENT

## CROSS SECTION DETAILS:

(Fill out only items that apply to your project.)

### ROOF-CEILING CONSTRUCTION

- Ridge board \_\_\_\_\_
- Rafters 2X\_\_\_\_, \_\_\_\_oc (on center)
- Ceiling joist 2X\_\_\_\_, \_\_\_\_oc
- Eng. Rafters\_\_\_\_\_, \_\_\_\_oc
- Eng. Trusses\_\_\_\_\_, \_\_\_\_oc
- Roof sheathing\_\_\_\_\_
- Fascia board\_\_\_\_\_
- Ice shield\_\_\_\_\_

- Felt paper\_\_\_\_\_
- Roof covering\_\_\_\_\_

### WALL CONSTRUCTION

- Double top plate 2X\_\_\_\_
- Bottom plate 2x\_\_\_\_
- 2X\_\_\_\_ wall studs, \_\_\_\_oc
- Headers\_\_\_\_X\_\_\_\_, Eng. beams\_\_\_\_\_
- Wall sheathing\_\_\_\_\_
- Eng. walls\_\_\_\_\_
- House wrap\_\_\_\_\_

### FLOOR CONSTRUCTION

- 2X\_\_\_\_ floor joist, \_\_\_\_oc
- Eng. floor\_\_\_\_\_, \_\_\_\_oc
- Floor sheathing\_\_\_\_\_
- Beams / Girders\_\_\_\_\_
- Sill plate 2X\_\_\_\_
- Sill plate anchors:  
1/2" bolts\_\_\_\_, \_\_\_\_oc  
eng. straps\_\_\_\_, installed per man. spec.

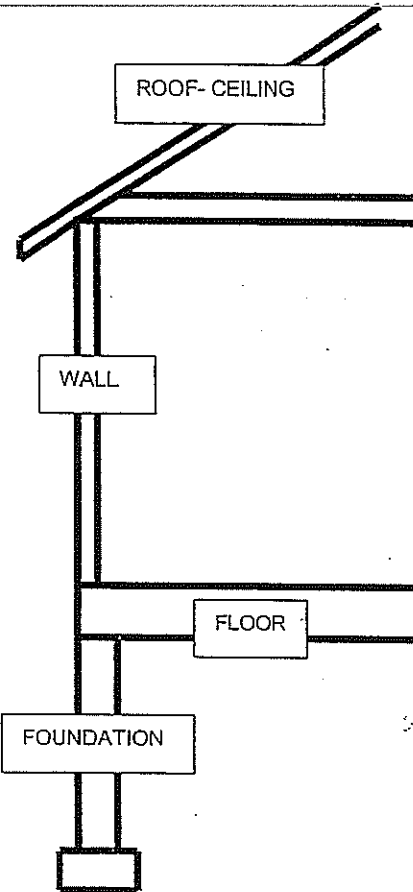
- Concrete slab\_\_\_\_\_
- Vapor retarder\_\_\_\_\_

### FOUNDATION

- Foundation walls:  
wood framed\_\_ Design Required  
masonry\_\_ (height\_\_\_\_ thickness\_\_\_\_)  
concrete\_\_ (height\_\_\_\_ thickness\_\_\_\_)  
insulating (ICF)\_\_ (height\_\_\_\_ thickness\_\_\_\_)  
post / columns\_\_ (\_\_\_\_X\_\_\_\_, \_\_\_\_oc)
- Footing: (Minimum 42" from bottom to final grade.)  
trench\_\_ (width\_\_\_\_ depth\_\_\_\_)  
form / rail\_\_ (depth\_\_\_\_ width\_\_\_\_)  
post / pier\_\_ (diameter\_\_\_\_ depth\_\_\_\_, \_\_\_\_oc)
- Dampproofing\_\_ Waterproofing\_\_
- Foundation drainage\_\_ type\_\_\_\_\_

### EXTERIOR COVERINGS

- Fascia\_\_\_\_\_
- Soffit\_\_\_\_\_
- Siding\_\_\_\_\_
- Veneer\_\_\_\_\_



Job address \_\_\_\_\_

Township\_ City\_ Village\_ \_\_\_\_\_

Name \_\_\_\_\_

Phone number \_\_\_\_\_

Type of work \_\_\_\_\_

# SHIAWASSEE COUNTY BUILDING DEPARTMENT

## ENERGY CODE COMPLIANCE FORM PRESCRIPTIVE METHOD

Building Component Minimum Required Insulation R Value (R13)  
(Walls: Top of wall to top of foundation, including rim joist)

### Window and door area (Fenestration openings)

Calculate % of windows and doors compared to total area:

Total wall area (Top of wall to finish grade) = \_\_\_\_\_ square feet

Total window and door area = \_\_\_\_\_ square feet

Window and door area divided by wall area = \_\_\_\_\_ % (Percent)

For 0% to 15% use (R1.9) windows \_\_\_\_\_

For 16% to 20% use (R2.5) windows \_\_\_\_\_

(If over 20% the Prescriptive Method can not be used.)

### Roof / Ceiling Insulation

Calculate % of skylight opening compared to total roof (ceiling area):

Total Roof (Ceiling Area) = \_\_\_\_\_ square feet

Total Skylight Area = \_\_\_\_\_ square feet

Skylight area divided by roof / ceiling area = \_\_\_\_\_ % (Percent)

For 0% to 10% use (R30) insulation in roof area ceiling.

### Floors over unconditioned spaces and exterior overhangs. (R21)

Slab on grade floors and its supporting foundation:

Non heated space (R5)

Heated space (R10)

Crawl space walls (R5)

Finished lower level (basement) walls (R5)

Exposed basement walls (more than 7% of gross wall area) (R5)

Total non heated exposed wall = \_\_\_\_\_ square feet

Total exposed wall area of house = \_\_\_\_\_ square feet

Non heated wall area divided by total wall area, times 100 = \_\_\_\_\_ % (Percent) of non insulated wall (to be less than 7%)

Job address \_\_\_\_\_

Township\_\_ City\_\_ Village\_\_

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

Date \_\_\_\_\_

~~This form shall be filled out completely before approval is given.~~

Plot Plan

SAMPLE

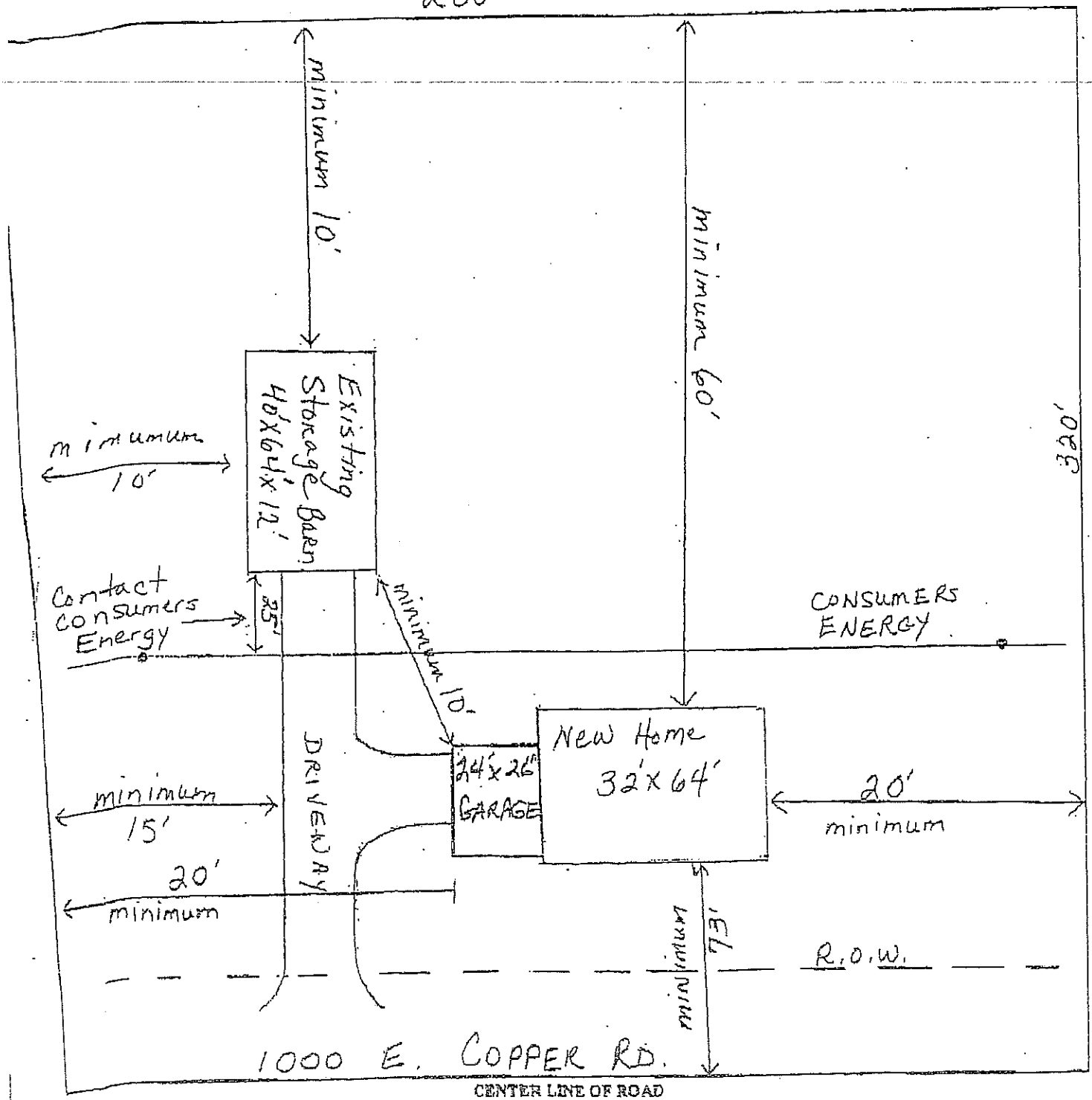
SHLAWASSEE COUNTY ZONING SITE PLAN GRID

NAME John Doe PROJECT ADDRESS 1000 E. COPPER RD.

LOT SIZE 200 x 320 or NUMBER OF ACRES \_\_\_\_\_

(SEE REVERSE SIDE FOR INSTRUCTIONS)

200'



1000 E. COPPER RD.

CENTER LINE OF ROAD

## BUILDING & TRADE PERMITS AND INSPECTIONS

Shiawassee County Building Department Main Number –  
989-743-2399

Building, Electrical, Mechanical, or Plumbing Inspection  
Scheduling – 989-743-2280

### Inspectors:

Dave Chrenka, Building Inspector – 989-743-2215

Gordon Diesler, Electrical Inspector – 989-743-2322

Merle West, Plumbing & Mechanical Inspector  
810-908-1770

## PLANNING & ZONING

Paula Willoughby, Zoning Administrator – 517-651-5374

Peter J. Preston, Community Planning & Zoning Consultant  
517-256-0566

## HOUSING REHABILITATION PROGRAM

Linda Shonberg, Housing Rehab. Specialist – 989-743-2270