

## **Building Permit Application Checklist**

# AGRICULTURAL Construction & Renovation

#### Did you know ....

The Ontario Building Code, 2006, allows farm building construction to be regulated by the National Farm Building Code of Canada, 1995 (NFBC).



This checklist provides property owners with a summary of the Building Permit submission requirements to apply for an agricultural building project.

| Requireme | ents at time of submission:   | Office Use |
|-----------|---|------------|
|           | Provincial Building Permit Application:  i) Application for a Permit to Construct or Demolish (2 sides)  ii) Schedule 1: Designer Information   | 0          |
|           | Site Plan (showing distances to: property lines, existing and proposed structures, neighbouring dwellings, villages or subdivisions, any major land features such as rivers, ponds, etc.) | •          |
|           | Entrance Permit / Civic Number Application and/or County Setback Permit (if applicable) www.sdg.on.ca   | O          |
|           | Two (2) copies of building drawings showing proposed construction and Engineering where required (buildings over 600m², silos, large slabs, etc.)   |            |
| <u> </u>  | Nutrient Management Plan (if applicable) i) Nutrient Management Plan or Strategy ii) Minimum Distance Calculation (MDS II)  | 0          |
|           | All Applicable Fees   | O          |
|           | Ministry of Labour <i>Notice of Project</i> form required when project value is over \$50,000.00 (http://www.labour.gov.on.ca/english/hs/forms/index.php)                                 | •          |
|           | Sample farm structure drawings can be found at: www.cps.gov.on.ca   |            |

#### Please note a building permit is NOT required for the following agricultural construction:

- A) A structure less than  $10m^2$  (108 ft²) that is not attached to an existing structure.
- B) Demolition of a farm building which does not contain a residential occupancy and which is associated with and located on land devoted to the practice of farming.
- C) Installation of a fence.
- D) Installation of a communication tower not exceeding 16.6 metres (54.5 feet) above ground level.

<sup>\*\*</sup> Please allow ten (10) business days for the review of your application. If more information is required you will be contacted by the building department. A permit will not be issued until all relevant documentation is received. \*\*



# Application for a Permit to Construct or Demolish This form is authorized under subsection 8(1.1) of the Building Code Act.

|  | For use by  | Principa   | I Authority                 |                   |             |                      |
|--|-------------|------------|-----------------------------|-------------------|-------------|----------------------|
| Application number:                          |             | Permit r   | number (if differ           | rent):            |             |                      |
| Date received:                               |             | Roll nur   | mber:                       |                   |             |                      |
| Application submitted to:(Name of municipal  |             |            | NORTH Dopard of health or o |                   |             |                      |
| A. Project information                       |             |            |                             |                   | _           |                      |
| Building number, street name                 |             |            |                             |                   | Unit number | Lot/con.             |
| Municipality                                 | Postal code |            | Plan number/                | other des         | scription   | -                    |
| Project value est. \$                        | 1           |            | Area of work                | (m <sup>2</sup> ) |             |                      |
| B. Purpose of application                    |             |            |                             |                   |             |                      |
| ☐ New construction ☐ Addition is existing by |             | ☐ Altera   | ation/repair                |                   | Demolition  | ☐ Conditional Permit |
| Proposed use of building                     | Curr        | ent use of | building                    |                   |             |                      |
| Description of proposed work                 |             |            |                             |                   |             |                      |
| C. Applicant Applicant is:                   |             |            | ☐ Authorized                |                   |             |                      |
| Last name                                    | First name  |            | Corporation of              | r partner         | ship        |                      |
| Street address                               |             |            |                             |                   | Unit number | Lot/con.             |
| Municipality                                 | Postal code |            | Province                    |                   | E-mail      | ·                    |
| Telephone number ( )                         | Fax<br>( )  |            |                             |                   | Cell number |                      |
| D. Owner (if different from applicant)       |             |            |                             |                   |             |                      |
| Last name                                    | First name  |            | Corporation of              | r partner         | ship        |                      |
| Street address                               | 1           |            | <u> </u>                    |                   | Unit number | Lot/con.             |
| Municipality                                 | Postal code |            | Province                    |                   | E-mail      |                      |
| Telephone number ( )                         | Fax<br>( )  |            | 1                           |                   | Cell number |                      |

| Last name   First name   Corporation or partnership (if applicable)  Street address   Unit number   Lot/con.    Municipality   Postal code   Province   E-mail    Telephone number   Fax   Cell number   (   | E. Builder (if different from applicant)          |                                  |                                       |                |       |       |           |    |
|--|---|----------------------------------|---------------------------------------|----------------|-------|-------|-----------|----|
| Municipality   | , , , ,   | First name                       | Corporation or partners               | hip (if applic | able  | )     |           |    |
| Municipality   |   |                                  |                                       |                |       |       |           |    |
| Telephone number ( )   | Street address                                    |                                  |                                       | Unit numb      | er    | L     | ot/con.   |    |
| Telephone number ( )   |   |                                  |                                       |                |       |       |           |    |
| F. Tarlon Warranty Corporation (Ontario New Home Warranty Program)  i. Is proposed construction for a new home as defined in the Ontario New Home Warranties   Yes   No Plan Act? If no, go to section G.  ii. Is registration required under the Ontario New Home Warranties Plan Act?   Yes   No    iii. If yes to (ii) provide registration number(s):  G. Required Schedules  i) Attach Schedule 1 for each individual who reviews and takes responsibility for design activities.  ii) Attach Schedule 2 where application is to construct on-site, install or repair a sewage system.  H. Completeness and compliance with applicable law  i) This application meets all the requirements of clauses 1.3.1.3 (5) (a) to (d) of Division C of the Building Code (the application is made in the correct form and by the owner or authorized agent, all applicable shave been completed on the application and required schedules, and all required schedules are submitted.)  Payment has been made of all fees that are required, under the applicable by-law, resolution or regulation made under clause 7(1)(c) of the Building Code Act, 1992. to be paid when the application   Yes   No is made.  ii) This application is accompanied by the plans and specifications prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the Building Code Act, 1992.  iii) This application is accompanied by the information and documents prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the Building Code Act, 1992.  iii) This application is accompanied by the information and documents prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the Building Code Act, 1992.  iii) This application is accompanied by the information and documents prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the Building Code Act, 1992.  iii) This application is accompanied by the information and documents prescribed by the applicable by-law, resolution o | Municipality                                      | Postal code                      | Province                              | E-mail         |       |       |           |    |
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| i. Is proposed construction for a new home as defined in the Ontario New Home Warranties   | Telephone number                                  | Fax<br>  ( )                     |                                       | Cell numb      | er    |       |           |    |
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| I  |   | ition will not contravene        | any applicable law.                   |                |       | Yes   |           | No |
| I  | I. Declaration of applicant                       |                                  |                                       |                |       |       |           |    |
| <ol> <li>(print name)</li> <li>The information contained in this application, attached schedules, attached plans and specifications, and other attached documentation is true to the best of my knowledge.</li> <li>If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.</li> </ol>  |   |                                  |                                       |                |       |       |           |    |
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| <ol> <li>The information contained in this application, attached schedules, attached plans and specifications, and other attached documentation is true to the best of my knowledge.</li> <li>If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.</li> </ol>  | 1   |                                  |                                       |                |       | decla | e that:   |    |
| documentation is true to the best of my knowledge.  2. If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.  | (print name)                                      |                                  |                                       |                |       |       |           |    |
| documentation is true to the best of my knowledge.  2. If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.  | The information contained in this applic          | ation, attached schedule         | s attached nlans and sne              | cifications    | and ( | other | attached  |    |
|  |   |                                  | o, attached plans and ope             | omoutions,     | ana   | Juici | attaorica |    |
| Date Signature of applicant  | If the owner is a corporation or partners         | hip, I have the authority        | o bind the corporation or             | partnership    |       |       |           |    |
| Date Signature of applicant  |   |                                  |                                       |                |       |       |           |    |
|  | Date  | Signature of                     | applicant                             |                |       |       |           |    |

Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act, 1992*, and will be used in the administration and enforcement of the *Building Code Act, 1992*. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor. Toronto, M5G 2E5 (416) 585-6666.

### **Schedule 1: Designer Information**

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project. A. Project Information Building number, street name Unit no. Lot/con. Municipality Postal code Plan number/ other description B. Individual who reviews and takes responsibility for design activities Name Firm Unit no. Street address Lot/con. Municipality Postal code Province E-mail Telephone number Fax number Cell number ( ) ( ) C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1. of **Division C1** ☐ House ☐ HVAC – House **Building Structural** ■ Small Buildings ■ Building Services ☐ Plumbing – House ■ Large Buildings ■ Detection, Lighting and Power ☐ Plumbing – All Buildings ☐ Complex Buildings ☐ Fire Protection ☐ On-site Sewage Systems Description of designer's work D. Declaration of Designer declare that (choose one as appropriate): (print name) ☐ I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4.of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories. Individual BCIN: Firm BCIN: ☐ I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5.of Division C, of the Building Code. Individual BCIN: Basis for exemption from registration: ☐ The design work is exempt from the registration and qualification requirements of the Building Code. Basis for exemption from registration and qualification: I certify that: 1. The information contained in this schedule is true to the best of my knowledge.

#### NOTE:

Date

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of practice, issued by the Ontario Association of
  Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of
  authorization, issued by the Association of Professional Engineers of Ontario.

Signature of Designer

2. I have submitted this application with the knowledge and consent of the firm.

## **Schedule 2: Sewage System Installer Information**

| A. Project Information  |   |                                |                         |   |  |  |
|---|---|--------------------------------|-------------------------|---|--|--|
| Building number, street name  |   | Unit number                    | Lot/con.                |   |  |  |
| Municipality  | Postal code   | Plan number/ other descr       | iption                  |   |  |  |
| B. Sewage system installer  |   |                                |                         |   |  |  |
| Is the installer of the sewage system eng                                       | aged in the busine  | ess of constructing on-site, i | nstalling, repairing, s | ervicing, cleaning or                       |  |  |
| emptying sewage systems, in accordance  | e with Building Co  | de Article 3.3.1.1, Division ( | 0?                      | -   |  |  |
| ☐ Yes (Continue to Section C)   | □ No ((   | Continue to Section E)         |                         | nknown at time of n (Continue to Section E) |  |  |
| C. Registered installer information   | on (where answ  | er to B is "Yes")              |                         |   |  |  |
| Name  |   |                                | BCIN                    |   |  |  |
| Street address  |   |                                | Unit number             | Lot/con.                                    |  |  |
| Municipality  | Postal code   | Province                       | E-mail                  |   |  |  |
| Telephone number  | Fax   | 1                              | Cell number             |   |  |  |
|   | [ ( )   | to coefficient Die "Voo        | ( )                     |   |  |  |
| D. Qualified supervisor informat  | ion (where ansv   |                                |                         |   |  |  |
| Name of qualified supervisor(s)   |   | Building Code Identification   | n Number (BCIN)         |   |  |  |
|   |   |                                |                         |   |  |  |
|   |   |                                |                         |   |  |  |
| E. Dealaystian of Applicants  |   |                                |                         |   |  |  |
| E. Declaration of Applicant:  |   |                                |                         |   |  |  |
|   |   |                                |                         |   |  |  |
| 1   |   |                                |                         | declare that:                               |  |  |
| (print name)  |   |                                |                         |   |  |  |
| ☐ I am the applicant for the permit submit a new Schedule 2 prior to            |   |                                | ler is unknown at time  | e of application, I shall                   |  |  |
| <u>OR</u>   |   |                                |                         |   |  |  |
| ☐ I am the holder of the permit to known.                                       | construct the sewa  | age system, and am submitt     | ing a new Schedule      | 2, now that the installer is                |  |  |
| I certify that:   |   |                                |                         |   |  |  |
| The information contained in this schedule is true to the best of my knowledge. |   |                                |                         |   |  |  |
| If the owner is a corporation or  | 2. If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership. |                                |                         |   |  |  |
|   |   |                                |                         |   |  |  |
| Date Signature of applicant   |   |                                |                         |   |  |  |

### **FREQUENTLY ASKED QUESTIONS??**

This is a guide only and is intended to help you, the homeowner/builder, to better understand the steps to follow in obtaining a Building Permit, it is not a substitute for the Municipal Building By-law. It also outlines what is expected of you during the course of construction. If you have any doubts or questions, please contact the Building Inspector, at the Municipal Office, 636 St. Lawrence Street, Winchester, (613) 774-2105.

Fees and Permit requirements are regulated by the Township's Building By-law 99-12.

#### When Do I Need a Building Permit?

Building Permits are required for the following:

- Any new buildings including farm buildings and structures
- Adding a carport, garage, rooms or another storey to an existing building
- Adding structural features such as a balcony, decks, a canopy or dormer, or enclosing a porch
- Excavating to construct a new or full basement under an existing house
- Constructing any accessory building over 10 sq. metres (100 sq. ft.) such as a garage or utility building
- Doing renovations or repairs of any kind, including the addition of a bedroom in a basement, or undertaking structural changes such as removing a load bearing partition or wall
- Signs having structural components or over 7.5 metres in height, retaining walls over 1 metre in height, antennas or towers over 16 metres, pools deeper than 3.5 metres, and dishes or solar collectors over 5 metres<sup>2</sup>
- Changing the use or occupancy of a building
- Installation of wood burning equipment and/or chimneys
- Installation of a public pool
- Installation or alteration of any building system such as plumbing, heating, ventilation or any life safety systems
- When a building or structure is to be moved

A demolition permit is required if you are tearing down a building or part of a building. A farm building (located on a farm) does not require a demolition permit.

#### Why Do I Need a Building Permit?

To ensure that construction within the municipality meets with standards set out in the Ontario Building Code, and in doing so protects the Public's Health, Safety and Welfare. Building Officials use Building Permits as a vital step in their enforcement of codes. The value of your home or business investment could be reduced if it does not meet with the code requirements.

#### How Do I Apply?

You will be required to complete and sign an application form. This form is available at the Municipal Office. You may also be required to submit other information depending on the type of construction project you propose (refer to the check list provided to determine what common types of information are required for various projects).

What Is A Site Plan? (A plot plan or survey showing a "bird's eye" view of the property)

- Municipal address
- Lot and Concession number
- Use of building
- Location of all buildings
- Lot dimensions
- Set backs from rivers, ponds, property lines
- North Arrow
- Vehicle access (drive way)
- Retaining walls (if applicable)
- Right-of-way (if applicable)
  - Easements
  - · Location of septic system

- Location of well
- Location of ground source heat pump (if applicable)
- Drainage plan showing how the water will be draining away from the building
- Location and discharge of sump pump

#### Can I Draw My Own Building Plans Or Drawings?

Yes, plans are required for new buildings, additions, accessory buildings and structural alterations, the following information must be included for each of the plans:

- 2 sets of plans to be submitted; one set will be returned to you to be kept on the construction site at all times
- Measurements may be in metric or imperial
- Plans may vary depending on the type of construction but generally should include:

#### A. Foundation Plan

- All dimensions
- · Floor framing, size and spacing
- Beams, columns (sizes)
- Stair location, number of steps or height of steps
- Foundation wall
- Footings
- Partitions
- Door, windows (sizes)
- Plumbing fixtures
- Furnace
- Floor drain
- Lintels
- Cross bridging
- Use of space
- Scale of plans

#### B. Floor Plan

- All dimensions
- Floor framing, size and direction (Submit Manufacturers Floor Layouts)
- Beams, lintels, and columns (sizes)
- Stair location, number of steps or height of steps
- Partitions
- Doors, windows (size)
- Plumbing fixtures
- Cross bridging
- Intended use of spaces (names of rooms)
- Roof framing (upper floor), size and direction of framing, include ridge lines and valleys
- Fireplace/stove and chimney locations
- Scale of plans

#### C. Fire Separations

• Plans to show locations, rating and construction detail

#### D. Roof Plans

Truss and Floor Layouts from the Manufacturer must be submitted with your application. The
engineered shop drawings for trusses and manufactured floor joists may be provided at the
time of your framing inspection.

#### E. Building Elevations

- · Finishing details of the exterior
- Accurate grade location

- Steps and handrails
- Deck and porch construction details
- Windows, doors
- Roof Pitch
- Chimney height

#### F. **Plumbing Drawings** (except for detached dwelling units)

- Schematic of all drains and vents
- Fixture locations and details of grab bars and stall sizes for Barrier Free washrooms

#### G. Cross Sections

- Scale of plans
- Vertical height dimensions
- Identify all materials used in walls, roof and floor construction
- Stair sections (dimensions)
- Roof pitch
- Construction details
- Exterior grade
- Lintels, Beams, columns
- Roof overhang
- · Dimensions of materials

#### What Do I Need For My Water And Sewage Systems?

#### Certificate of Approval for Sewage System

- Certificates are required for the installation or enlargement of any private sewage system i.e. septic tank and tile field
- Copy of certificate must be submitted to the Building Inspector before a Building Permit can be issued
- In the case of an addition, change of use, etc., a letter of approval is required (form enclosed)

#### Do I Need A Plumbing Permit?

- A Building Permit is required for the installation of any plumbing fixtures or modification to any plumbing and drainage systems
- Plumbing inspections are required

#### Do I Need A New Home Warranty Registration Number?

A registration number is required for new house construction where a person other than the homeowner is the builder or general contractor (form enclosed). You are not a builder or general contractor unless you are specifically arranging, organizing, and paying for each of the trades.

#### What Does A Building Permit Cost?

Building Permit fees are set by By-law, you may ask for a copy of the By-law or call the department to get an estimate of costs. The types of fees will vary but include building inspections, entrance permits, civic addresses, development charges, health permits, electrical permits, etc.

#### When Do I Need To Contact The Conservation Authority?

Whenever you plan to build within the flood plane or in an area that is likely to flood once in a 100 years. This can be difficult to tell because this flood line is not usually visible on the ground. If you are not sure then call either the South Nation Conservation Authority or the Rideau Valley Conservation Authority depending on which river takes the water run off from your property.

#### What Are Development Fees?

Development fees are established by By-law for new development on a property, the fees help offset the costs of

municipal infrastructure effected by expanding development. The fees are due before a Building Permit may be issued.

#### **Are There Any Other Matters I Should Consider?**

Bell Canada - for telephone connections and the location of buried cable Insurance - contact your own agent for coverage during construction

Ontario Hydro - electrical permits and inspections are required for any electrical wiring

- information about a hydro service for your property or the location of buried cable is available by contacting Hydro One.

Location of - Make sure that location of services will not affect future plans, ie. Garages, decks, pools, additions, sewage/water systems, play ground equipment, fencing, etc.

#### What Are My Obligations During Construction?

1. POST your Building Permit so that it is visible from the street.

2. KEEP a copy of your Building plans on the construction site.

- 3. NOTIFY the Building Inspector <u>at least 48 hours in advance</u> of the stage of construction requiring notice indicated on the Building Permit.
- 4. NOTIFY the Building Inspector of any proposed changes to your building plans. These will require approval prior to changes.

#### When Can I Occupy The Building?

When notice of the date of completion is given to the Chief Building Official and a final inspection has been made.

#### Can I Occupy an Unfinished Building?

Occupancy of an unfinished building may be granted provided the conditions of the Ontario Building Code are met, e.g. Fire and Life Safety components, water & sewage components, etc.

#### Why Do I Need Inspections?

Proper inspections will help ensure that construction is safe and that it meets code requirements. This will help protect your investment and contribute to a better standard of development for the community.

#### What Happens If I Build Without A Permit?

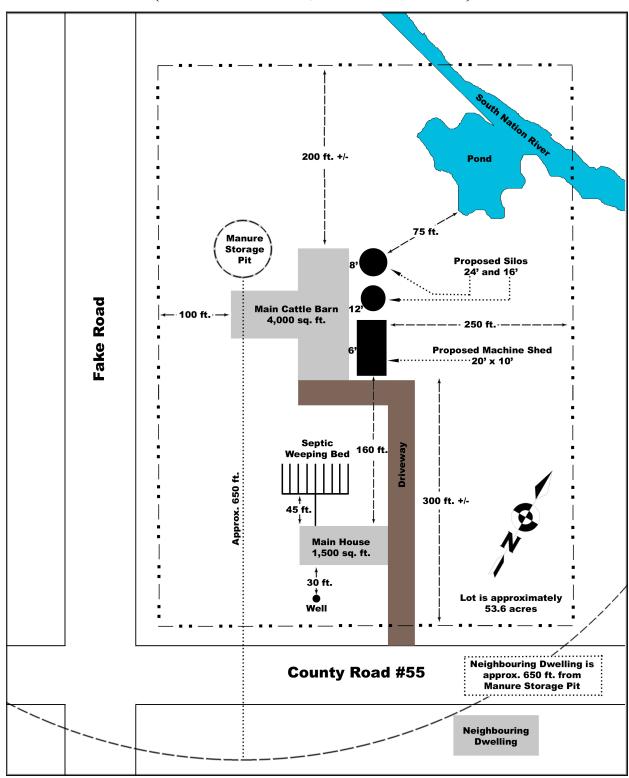
Building without a permit is against the law and is subject to fines or penalties set out in the *Building Code Act* and the *Provincial Offences Act*. Furthermore, the cost of issuing a permit where construction has begun is double the standard permit fee. The Chief Building Official may also ask for engineering inspections on the existing building or parts thereof before a permit can be issued. This is an unwise and expensive proposition, don't do it.

NOTE: The issuing of a Building Permit doesn't in any way relieve the Owner or his agent from complying with all the rules and regulations of the Zoning By-laws, the Ontario Building Code, or any other applicable law.

## Sample Agricultural Site Plan

## 19548 County Road #55

(Part of Lot 19, Concession 8)



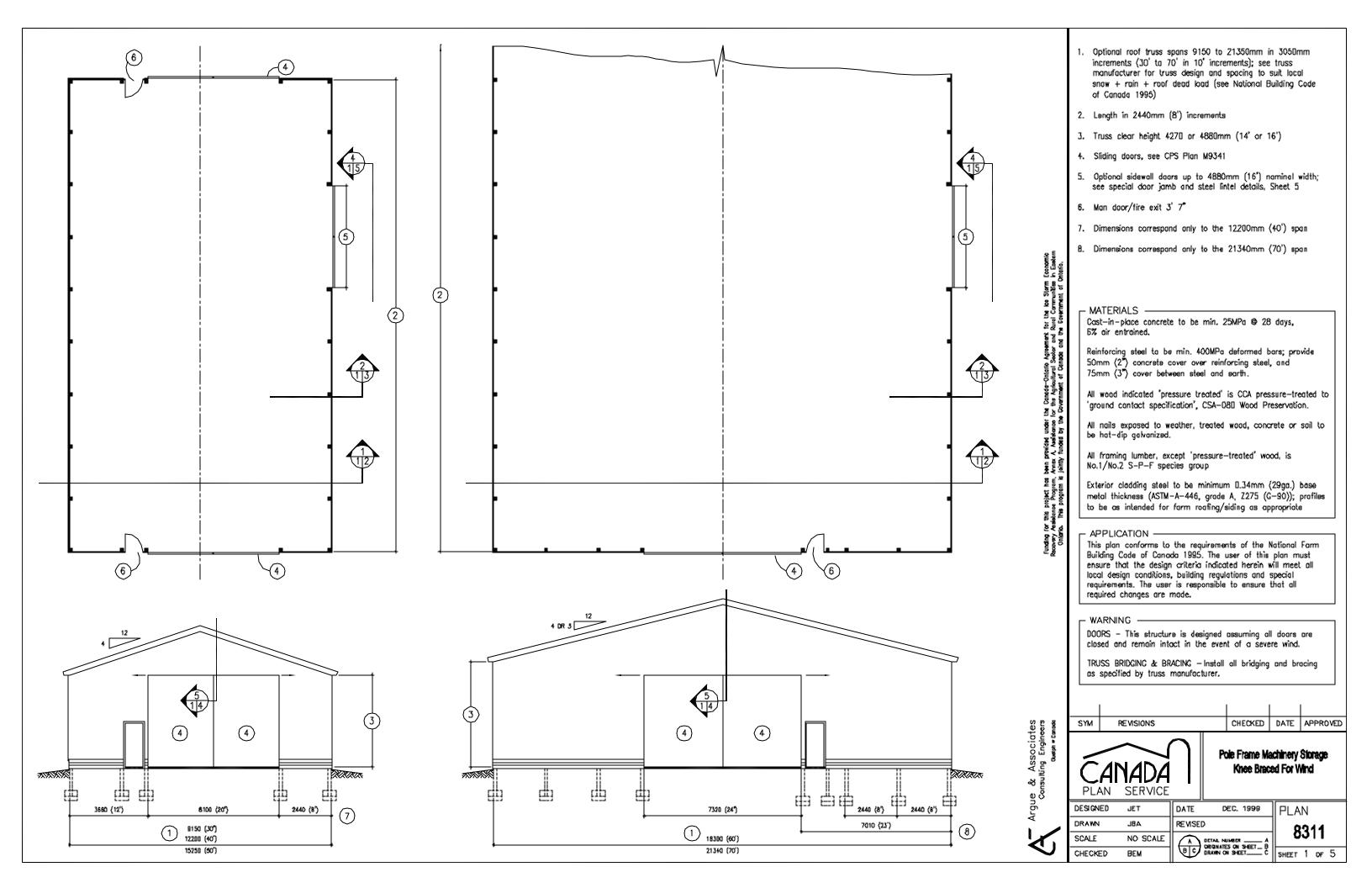
#### Information to include on an agricultural site plan:

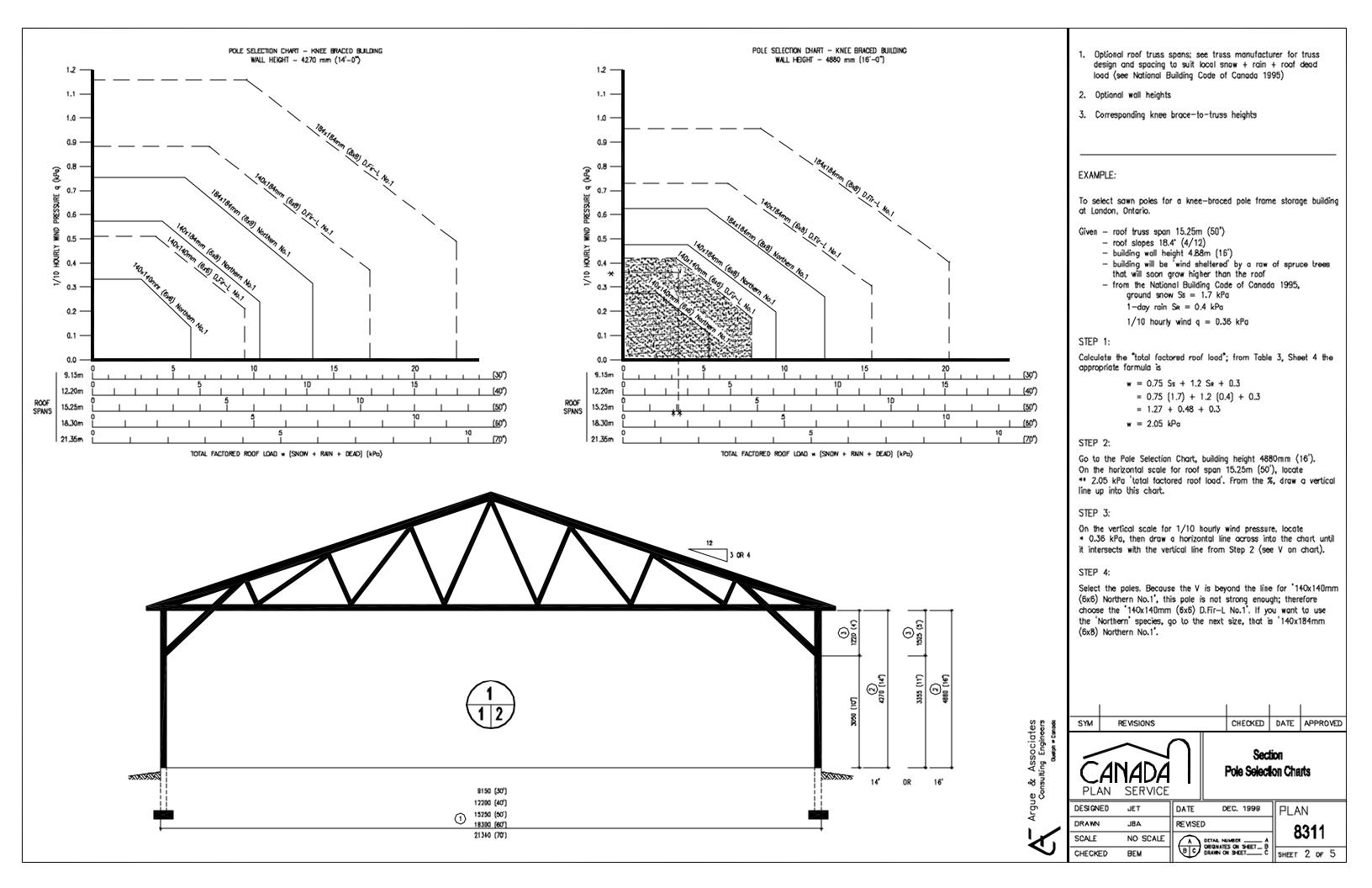
- Municipal address
- Lot and Concession number
- Use of buildings
- Location of all buildings
- Lot dimensions / size
- Set backs from property lines
- Set backs from rivers, ponds and/or other natural features
- North Arrow

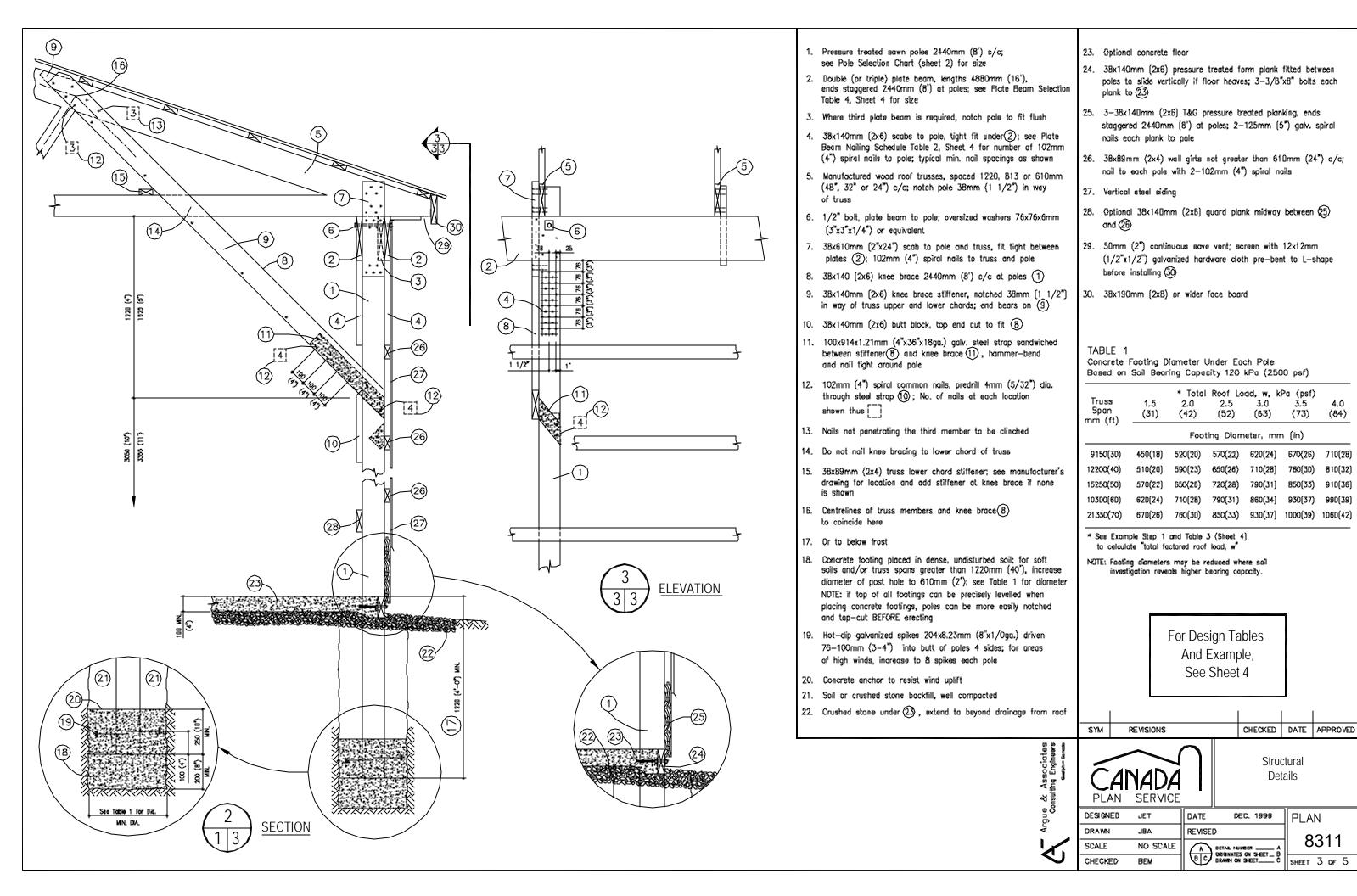
- Vehicle access (driveway)
- Retaining walls (if applicable)
- Right of Way & Easements (if applicable)
- Location of septic system & well
- Location of ground source heat pump

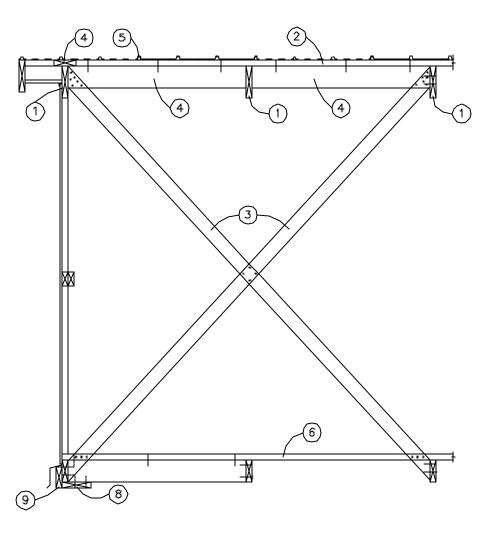
(Geothermal) (if applicable)

- Drainage plan showing where water will drain from buildings
- Location and discharge of sump pump











Notes to Tables 3 and 4

- 1. Ground snow (Ss) and rain (Sx) are tabled in the National Building Code of Canada, 1995.
- For 4/12 roof slope, a slippery metal roof without bastructions to snow sliding is assumed; for roof areas above roof valleys, ice guards ar ather obstructions to snow sliding, use only the 3/12 (14.0°) adjustment formulas.
- 3. Add one more matching plate beam member to end spans of plate beam.

TABLE 2 Plate Beam Nailing Schedule

| Plate Beam<br>Nominal Size | Total No. of 4° spiral nails at  (2) & (4) Sheet 3 |
|----------------------------|--|
| 38 x 140mm (2x6)           | 11   |
| 38 x 184mm (2x8)           | 17   |
| 38 x 235mm (2x10)          | 28   |
| 38 x 286mm (2x12)          | 35   |

Total Factored Roof Load, w = snow + rain + dead (kPa)

| Cable Roof Slo | pe Wind — Sheltered          | Wind — Exposed               |
|----------------|------------------------------|------------------------------|
| 4/12 (18.4°)   | $w = 0.75S_8 + 1.2S_R + 0.3$ | $w = 0.56S_8 + 1.2S_R + D.3$ |
| 3/12 (14.0°)   | $w = 0.96S_S + 1.2S_R + 0.3$ | $w = 0.71S_8 + 1.2S_R + D.3$ |

TABLE 4 Plate Beam Selection for Total Factored Roof Load, w (kPa)

|                    |                        | Roc              | sf Span, mr      | n (ft)               |                   |
|--------------------|------------------------|------------------|------------------|----------------------|-------------------|
| Plate Beam<br>Size | <b>9150</b><br>(30 ft) | 12200<br>(40 ft) | 15250<br>(50 ft) | 1 B 3 O O<br>(60 ft) | 21 350<br>(70 ft) |
|                    | Trusse                 | s Spaced         | <b>©</b> 1220mr  | m (48°)              | ) c/c             |
| 2-38x140 (2-2x6)   | 1.59                   | 1.19             |                  |                      |                   |
| 2-38x184 (2-2x8)   | 2.35                   | 1.77             | 1.41             | 1.18                 |                   |
| 3-38x184 (3-2x8)   | 3.53                   | 2.65             | 2.12             | 1.77                 |                   |
| 2-38x235 (2-2x10)  | 3.52                   | 2.64             | 2.11             | 1.76                 | 1.51              |
| 3-38x235 (3-2x10)  | 5.28                   | 3.96             | 3,17             | 2.64                 | 2.26              |
| 2-38x286 (2-2x12)  |                        | 3.55             | 2.84             | 2.37                 | 2.03              |
| 3-38x286 (3-2x12)  |                        |                  | 4.26             | 3.55                 | 3.05              |
|                    | Trusse                 | s Spaced         | <b>⊕</b> 813mm   | (32°)                | c/c               |
| 2-38x184 (2-2x8)   | 2.56                   | 1.92             | 1.53             | 1.2B                 |                   |
| 3-38x184 (3-2x8)   | 3.84                   | 2.88             | 2.30             | 1.92                 | 1.64              |
| 2-38x235 (2-2x10)  | 3.82                   | 2.87             | 2,29             | 1.91                 | 1.64              |
| 3-38x235 (3-2x10)  | 5.73                   | 4.30             | 3.44             | 2.87                 | 2.46              |
| 2-38x286 (2-2x12)  |                        | 3.86             | 3.09             | 2.57                 | 2.21              |
| 3-38x286 (3-2x12)  |                        | 5.79             | 4.63             | 3.86                 | 3.31              |
|                    | Trusse                 | s Spaced         | ● 610mm          | (24°)                | c/c               |
| 2-38x184 (2-2x8)   | 1.88                   | 1.41             | 1.13             |                      |                   |
| 3-38x184 (3-2x8)   | 2.62                   | 2.12             | 1.69             | 1.41                 | 1.21              |
| 2-38x235 (2-2x10)  | 2.81                   | 2.11             | 1.69             | 1.41                 | 1.21              |
| 3-38x235 (3-2x10)  | 4.22                   | 3.17             | 2,53             | 2.11                 | 1.81              |
| 2-38x286 (2-2x12)  | 3.79                   | 2.84             | 2.27             | 1.89                 | 1.62              |
| 3-38x286 (3-2x12)  | 5.6B                   | 4.26             | 3.41             | 2.84                 | 2.44              |

- 1. Truss upper chord
- 2. 38x89mm (2x4) roof purlins, 4880mm (16'-0") lengths, end joints staggered 2440mm (8'-0") at trusses; nail each purlin to each truss with 2-102mm (4") spiral nails
- 3. 38x89mm (2x4) permanent X-bracing at each truss stiffener(6)but not more than 2440mm (8'-0") c/c
- 4. 38x140mm (2x6) blocking between trusses at(2); nail with 102mm (4") spiral nails @ 300mm (12") c/c
- 5. Steel roofing is galvanized sheet, minimum thickness 0.34mm (29ga), screw-fastened; typical Canadian farm roofing profiles
- 6. 38x89mm (2x4) truss lower chord stiffener, spaced as per truss manufacturer but in no case greater than 2440mm (8'-0") c/c
- 7. 38x140mm (2x6) blocking between trusses at each X-brace( $\widehat{3}$ )
- 8. 38x184mm (2x8) door head jamb
- 9. Track board and galvanized steel flashing to suit endwall door and hardware

**EXAMPLE** — Use Tables 3 and 4 to select a plate beam cambination for a pale frame building at London, antaria

@wee - truss span 15250mm (50"-0")

- truss slope 4/12 (18.4°)
- sidewall pale spacing 2440mm (8"-D")
- truss spacing 1220mm (48")
- building is fully exposed to wind (no taller
- building or trees nearby)

  from National Building Code of Canada 1995:
  ground snaw Ss = 1.7 kPa
  1-day rain Sr = 0.4 kPa

- calculate total snow + rain + dead roof load
- from Table 3 the appropriate formula is w = 0.56% + 1.2% + 0.3
- then w = 0.56 (1.7) + 1.2 (0.4) + 0.3
- and w = 1.73 kPa (40 lb/fl<sup>2</sup>)

- go to Table 4, trusses ₱ 1220mm (48°) c/c
- and roof span 15250mm (50'-0')

  note that either 2-2x10 or 3-2x8 plate beam will support 2.11 or 2.12 kPa respectively, both safely greater than 1.73 kPa (fram Step 1).

SYM REVISIONS CHECKED DATE APPROVED



Structural Details Plate Beam

PLAN

8311

SHEET 4 OF 5

DESIGNED JET DATE DEC. 1999 DRAWN JBA REVISED SCALE NO SCALE CHECKED ВЕМ



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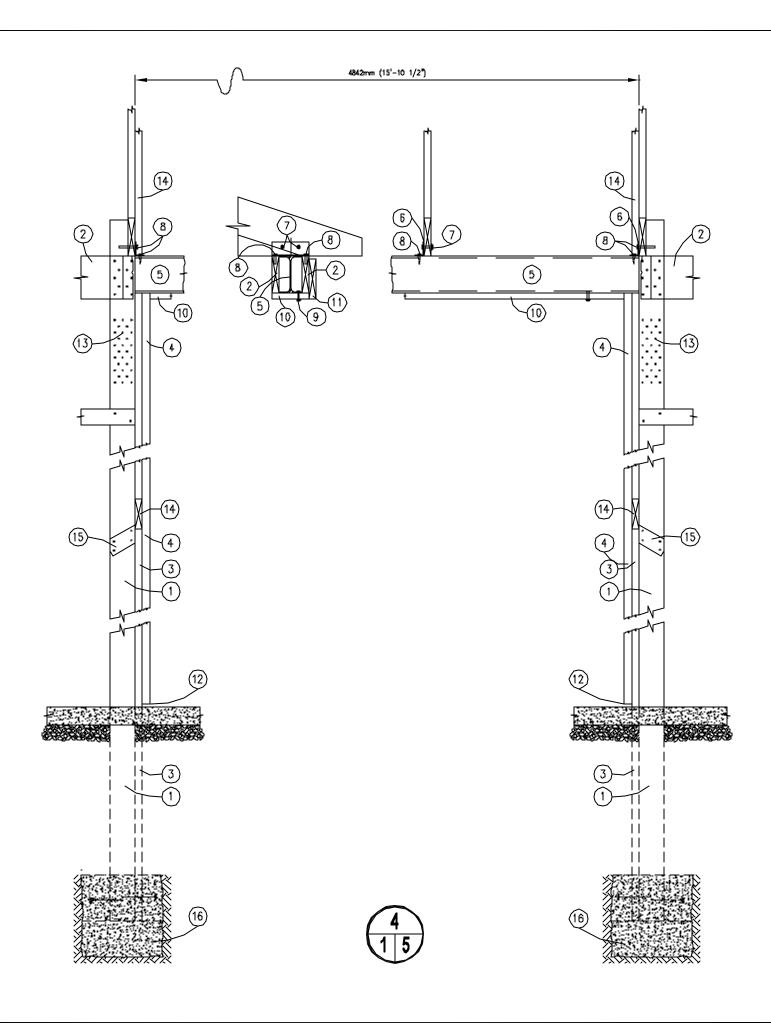


TABLE 5 Steel Bearn Total Factored Roof Lands, w (kPa), Door Span 4880mm (16")

| Steel Beam                  |                 | Ro               | af Span, mm      | (fl)             |                   |
|-----------------------------|-----------------|------------------|------------------|------------------|-------------------|
| Size – metric<br>(Imperial) | 9150<br>(30 ft) | 12200<br>(40 ft) | 15250<br>(5D ft) | 18300<br>(6D ft) | 21.350<br>(70 ft) |
| * W25Dx39<br>(W1Dx26)       |                 |                  | 6.13             | 5.10             | 4.37              |
| W20Dx42<br>(W0x20)          |                 |                  | 5.29             | 4.40             | 3.78              |
| W250x33<br>(W1Dx22)         |                 | 6.28             | 5.03             | 4.18             | 3.59              |
| W20Dx36<br>(W8x24)          |                 | 5.6B             | 4.54             | 3.78             | 3.24              |
| W200x31<br>(W8x21)          | 6.64            | 4.98             | 3.99             | 3.32             | 2.84              |
| W200x27<br>(W8x1B)          | 5.53            | 4.15             | 3.32             | 2.76             | 2.37              |
| W25Dx24<br>(W1Dx16)         | 5.39            | 4.D5             | 3.24             | 2.70             | 2.31              |
| W20Dx21<br>(W8x14)          | 3.82            | 2.87             | 2.29<br>         | 1.91             | 1.64              |

\*means "Wide Flonge", 25Dmm deep by 39 kg/m of length (10" deep by 26 lb/ft of length)

**EXAMPLE** - To select a steel beam fintel far a 4880mm (16°) sidewall doorway at London, Ontario.

Given: - truss span 15250mm (50'-0")

- truss slape 4/12 (18.4°)

- building is close to a row of spruce trees that will soon grow to be higher than the new building, therefore the roof must be considered wind-sheltered.

from the National Building Code of Canada 1995:
 graund snow Ss = 1.7 kPa

maximum one-day rain Sr = 0.4 kPa

Step 1: - calculate 'tatal factored roof load'

- from Table 3, Sheet 4 the appropriate formula is  $w = 0.75S_8 + 1.2S_R + 0.3$ 

- then w = 0.75 (1.7) + 1.2 (0.4) + 0.3

- and w =  $2.06 \text{ kPa} (43 \text{ lb/ft}^2)$ 

go ta Table 5 and column under roof span 1525Dmm (50 ft), then down to w = 2.29 kPa. This corresponds to a steel beam lintel size W200x21 (W8x14) which is safe for London, Ontaria.

- 1. Pressure treated sawn pole; see Pole Selection Chart (Sheet 2)
- 2. 38mm (1 1/2") plate beam, see  $\frac{2}{113}$
- 3. Reinforce door jamb poles with 38mm (1  $1/2^n$ ) pressure treated plank 50mm (2") wider than pale; extends from knee brace (14) to concrete footing; outside edge flush with (2)
- 4. 38mm (1 1/2") side door jamb, 100mm (4") wider than pole( $\widehat{1}$ ) notch in way of (2), autside edge flush with (1); (3) and (4)combine to give 76mm (3") end-grain bearing under beam(5)
- 5. Steel beam 4842mm (15'-10 1/2") long, see Table 5 for size; beam ends each to bear on 76mm (3") of end grain at side jambs
- 6. Weld truss anchor clips 50x75x6mm (2x3x1/4°) steel angle to(5) drill clips for 3/8 bolts and/or lag screws as shown
- 7. 3/8" bolts, truss to 6
- 8.  $3/8" \times 4"$  lag screws to truss/pale and to plate beams (2)
- 9. 3/8" x 2 1/2" carriage bolts, head jamb (10) to beam @ 600mm (24") c/c; alternate left/right of beam centerline
- 10. 38mm (1 1/2°) door head jamb, width to fit (2)
- 11. 38mm (1 1/2") track board (optional for sliding door hardware)
- 12. 12mm (1/2") gap from (4) to concrete flaor
- 13. Increase scab nailing 1.5 times for extra roof load as compared with Table 2, Sheet 4
- 14. Knee brace 38x140mm (2x6), stiffened with 38x89mm (2x4) same as in  $(\frac{2}{113})$ , except left pole is reversed
- 15. Knee brace steel strap anchor at pole, same as in  $\frac{2}{1\overline{13}}$
- 16. Increase effective area of concrete pads at door jambs by 150% as compared with pads for pales at 8'-0" centres

REVISIONS CHECKED DATE APPROVED **Details of Optional** Sidewall Door Frame

DESIGNED JET JBA SCALE

DATE REVISED NO SCALE CHECKED ВЕМ

SERVICE

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