

## **32 Abell Avenue, Woodbridge** Vaughan

(GBCA Project No: 20016)

## **Cultural Heritage Impact Assessment**

March 30, 2020



### **TABLE OF CONTENTS**

1.	INTRODUCTION	2
2.	BACKGROUND AND HERITAGE STATUS	5
3.	ALTERATION PROPOSAL	7
4.	HERITAGE IMPACT ASSESSMENT	8
5.	CONSERVATION / MITIGATION OPTIONS	12
6.	CLOSURE	13

APPENDIX I - The Standards for Preservation, Rehabilitation and Restoration - From the Standards and Guidelines for the Conservation of Historic Places in Canada

APPENDIX II - Architectural Drawings

### 1. INTRODUCTION

### 1.1 Property Description

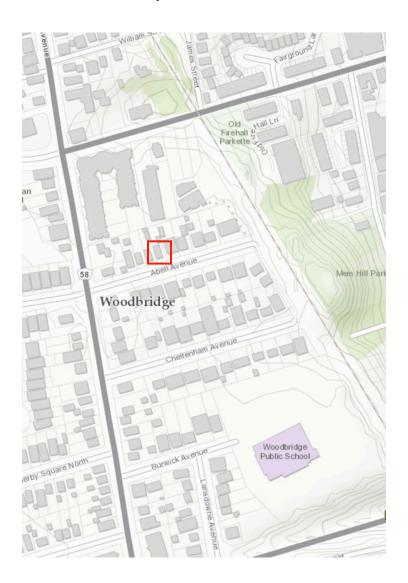
The property at 32 Abell Avenue is Designated under Part V of the *Ontario Heritage Act*, as part of the Woodbridge Heritage Conservation District (2009). The residential property includes a single-family detached, two-storey house, with a one-storey rear addition and a stand alone one-storey garage structure. According to the HCD Inventory the house dates 1900-1925.

The house is set-back from the street (with landscaping between the house and the sidewalk), and has a paved driveway on the east side of the property, leading to a separate one-storey garage structure in the rear.

### 1.2 Present Owner and Contact

Mark and Nancy Taylor 32 Abell Avenue Woodbridge, ON (647) 201-5026

### 1.3 Location Map















### 2. HISTORY AND HERITAGE EVALUATION

As per the direction from the Senior Heritage Planner, this Cultural Heritage Impact Assessment (CHIA) does not include the historical, architectural and contextual background of the property as would usually accompany a CHIA, as per the City of Vaughan's Guidelines. Background information for the property is contained within the Woodbridge Heritage Conservation District report.

The property was previously evaluated through the Building Inventory undertaken at the time of the HCD study. The property at 32 Abell Avenue is referred to as a Contributing Property in the Woodbridge HCD Plan. It is a typical four-square Edwardian residential building dating to the early twentieth century.

As the property is already designated under Part V of the Ontario Heritage Act (as part of the Woodbridge Heritage Conservation District) an evaluation under Ontario Regulation 9/06 is not warranted.



### 3. ALTERATION PROPOSAL

The proposed alterations are illustrated in the designs attached as Appendix II to this Report. The alterations can be summarized as follows:

- Addition of dormer windows onto the east and west sides of the existing pitched roof structure to extend living space in the attic level;
- Adding a second and third storey to the existing one-storey rear addition, and,
- Constructing a new two-storey garage structure with pitched roof attached to the expanded rear addition. (The existing one-storey separate garage structure will be demolished).

### 4. HERITAGE IMPACT ASSESSMENT

#### 4.1 POLICY FRAMEWORK

The following Heritage and Planning Policies were used to assess the impact to the heritage resource.

### Ontario Planning Act and Provincial Policy Statement (2014)

The City of Vaughan uses the Provincial Policy Statement (PPS) to guide its official plan and to inform decisions on other planning and development matters. It provides policy direction on matters of provincial interest related to land use planning and development and sets the policy foundation for regulating the development and use of land. Cultural Heritage is included as matters of provincial interest.

The Planning Act requires that all decisions affecting land use planning matters "shall be consistent with" the PPS.

The PPS, Section 2.6: Cultural Heritage and Archaeology states:

**Section 2.6.1**: Significant built heritage resources and significant cultural heritage landscapes shall be conserved.

**Section 2.6.3**: Planning authorities shall not permit development and site alteration on adjacent lands to protected heritage property except where the proposed development and site alteration has been evaluated and it has been demonstrated that the heritage attributes of the protected heritage property will be conserved.

#### Official Plan

The heritage policies in the City of Vaughan's Official Plan provide the policy framework for heritage conservation in the City. The following Official Plan policies are relevant for this assessment.

- **6.3.2.3**: It is the policy of Council to conserve Heritage Conservation Districts by approving only those alterations, additions, new developments, demolitions, removals and public works in accordance with the respective Heritage Conservation District Plans and the policies of the Plan
- **6.3.2.4**: It is the policy of Council that any proposed private or public development within or adjacent to a Heritage Conservation District will be designed to respect and complement the identified heritage character of the district as described in the Heritage Conservation District Plan.

#### **Ontario Heritage Legislation**

The *Ontario Heritage Act* gives municipalities and the provincial government powers to preserve the heritage of Ontario. It provides the framework by defining municipal and provincial roles and by enabling municipal councils to pass by-laws under the Act that designate properties of cultural heritage value or interest. Properties can be designated under Part IV of the Act (for individual properties) or under Part V of the Act (for areas within a boundary defining a Heritage Conservation District). The properties that are designated under the *Ontario Heritage Act* are thereby defined as "significant built heritage resources" and therefore are subject to the above-mentioned planning policies.

The designation of an HCD invokes Section 42 of the Ontario Heritage Act, which states:

42. (1) No owner of property situated in a heritage conservation district that has been designated by a municipality under this Part shall do any of the following, unless the owner obtains a permit from the municipality to do so: 1) Alter, or permit the alteration of, any part of the property, other than the interior of any structure of building on the property. 2) Erect, demolish or remove any building or structure on the property or permit the erection, demolition of removal of such a building or structure.

## The Standards and Guidelines for the Conservation of Historic Places in Canada

The Federal Agency Parks Canada Standards and Guidelines for the Conservation of Historic Places in Canada are accepted as the official document guiding planning, stewardship and conservation approach for all listed and designated heritage resources. The Standards are included as Appendix I to this report.

#### **Woodbridge Heritage Conservation District Plan and Guidelines**

The goal of the HCD Plan is to conserve the heritage resources within the district boundaries, preventing demolition or relocation. The information within the Plan provides guidance to both property owners and the municipality on the most appropriate ways of making changes to properties in the HCD boundaries.

The HCD Plan identifies seven Heritage Character Areas. These are Woodbridge Avenue; Kipling Avenue North and South; Wallace Street; William Street and James Street; Clarence Street and Park Drive; The Fairgrounds Area; and, the Humber River Corridor. In the District Plan, a list of attributes are laid out for each Heritage Character Area. And each Area has its own Guidelines. The subject property is located in the "Kipling Avenue South" Heritage Character Area.

It should be noted that the heritage attributes and the guidelines listed in the HCD Plan for this character area (see section 6.1.2 of the district Plan and Guidelines document) focus on properties that are located primarily along Kipling Avenue and are therefore not directly applicable to this residential property.

#### 4.2 HERITAGE IMPACT ASSESSMENT

In accordance with the *Standards and Guidelines for the Conservation of Historic Places in Canada*, the project meets the following standards relating to preservation and rehabilitation:

- Conserve the heritage value of a historic place. Do not remove, replace, or substantially alter its intact or repairable characterdefining elements.
- Conserve the heritage value and character-defining elements when creating any new additions to an historic place or any related new construction.
- Make the new work physically and visually compatible with, subordinate to and distinguishable from the historic place.
- Create any new additions or related new construction so that the essential form and integrity of an historic place will not be impaired if the new work is removed in the future.

The site alteration maintains in full the existing residential building, and is therefore consistent with the policies under the Ontario Planning Act (PPS) and under the City of Vaughan Official Plan. The alteration respects the character of the district.

The proposed addition is primarily to the rear of the existing four-square Edwardian era building, thereby conserving the front/public facade of the house on the streetscape. The garage portion of the addition is set well back from the face of the house so as to not affect the four-square characteristic. Houses of a similar age and style have previously been altered with garage additions (see photographs on the following page).

The proposed building materials are detailed on the drawings attached as Appendix II to this report. The addition will be clad in Hardie Panel (in a "board-and-batton" pattern) and will therefore be distinctive from the existing masonry, but being compatible with the heritage character of the district.

The proposed addition will not negatively impact the streetscape. The building immediately adjacent (to the east) is not a contributing building in the District and therefore the proposed addition does not impact adjacent properties (see photograph on the following page). The size of this adjacent property, along with the placement of the proposed addition towards the rear of the house, will diminish the visibility of the addition from the public realm.



23 Abell Avenue





27 Abell Avenue



38 Abell Avenue - adjacent to proposed addition

### 5. CONSERVATION/MITIGATION OPTIONS

According to the City of Vaughan's Guidelines for Cultural Heritage Impact Assessments, a CHIA must include a comprehensive examination of the following conservation / mitigation options:

- a) Avoidance Mitigation
- b) Salvage Mitigation
- c) Historical Commemoration

None of these conservation approaches are applicable in this instance where the heritage resource is being conserved in full and in situ.

### 6. CLOSURE

The information and data contained herein represents GBCA's best professional judgment in light of the knowledge and information available to GBCA at the time of preparation. GBCA denies any liability whatsoever to other parties who may obtain access to this report for any injury, loss or damage suffered by such parties arising from their use of, or reliance upon, this report or any of its contents without the express written consent of the GBCA and the client.

## THE STANDARDS

The Standards are not presented in a hierarchical order. All standards for any given type of treatment must be considered, and applied where appropriate, to any conservation project.

### **General Standards for Preservation, Rehabilitation** and Restoration

- Conserve the heritage value of an historic place. Do not remove, replace or substantially alter its intact or repairable characterdefining elements. Do not move a part of an historic place if its current location is a character-defining element.
- Conserve changes to an historic place that, over time, have become character-defining elements in their own right.
- Conserve heritage value by adopting an approach calling for minimal intervention.
- 4. Recognize each historic place as a physical record of its time, place and use. Do not create a false sense of historical development by adding elements from other historic places or other properties, or by combining features of the same property that never coexisted.
- Find a use for an historic place that requires minimal or no change to its character-defining elements.
- 6. Protect and, if necessary, stabilize an historic place until any subsequent intervention is undertaken. Protect and preserve archaeological resources in place. Where there is potential for disturbing archaeological resources, take mitigation measures to limit damage and loss of information.
- Evaluate the existing condition of character-defining elements to determine the appropriate intervention needed. Use the gentlest means possible for any intervention. Respect heritage value when undertaking an intervention.
- Maintain character-defining elements on an ongoing basis. Repair character-defining elements by reinforcing their materials using recognized conservation methods. Replace in kind any extensively deteriorated or missing parts of character-defining elements, where there are surviving prototypes.
- Make any intervention needed to preserve character-defining elements physically and visually compatible with the historic place and identifiable on close inspection. Document any intervention for future reference.

#### **Additional Standards Relating to Rehabilitation**

- 10. Repair rather than replace character-defining elements. Where character-defining elements are too severely deteriorated to repair, and where sufficient physical evidence exists, replace them with new elements that match the forms, materials and detailing of sound versions of the same elements. Where there is insufficient physical evidence, make the form, material and detailing of the new elements compatible with the character of the historic place.
- 11. Conserve the heritage value and character-defining elements when creating any new additions to an historic place or any related new construction. Make the new work physically and visually compatible with, subordinate to and distinguishable from the historic place.
- 12. Create any new additions or related new construction so that the essential form and integrity of an historic place will not be impaired if the new work is removed in the future.

#### **Additional Standards Relating to Restoration**

- 13. Repair rather than replace character-defining elements from the restoration period. Where character-defining elements are too severely deteriorated to repair and where sufficient physical evidence exists, replace them with new elements that match the forms, materials and detailing of sound versions of the same elements.
- 14. Replace missing features from the restoration period with new features whose forms, materials and detailing are based on sufficient physical, documentary and/or oral evidence.

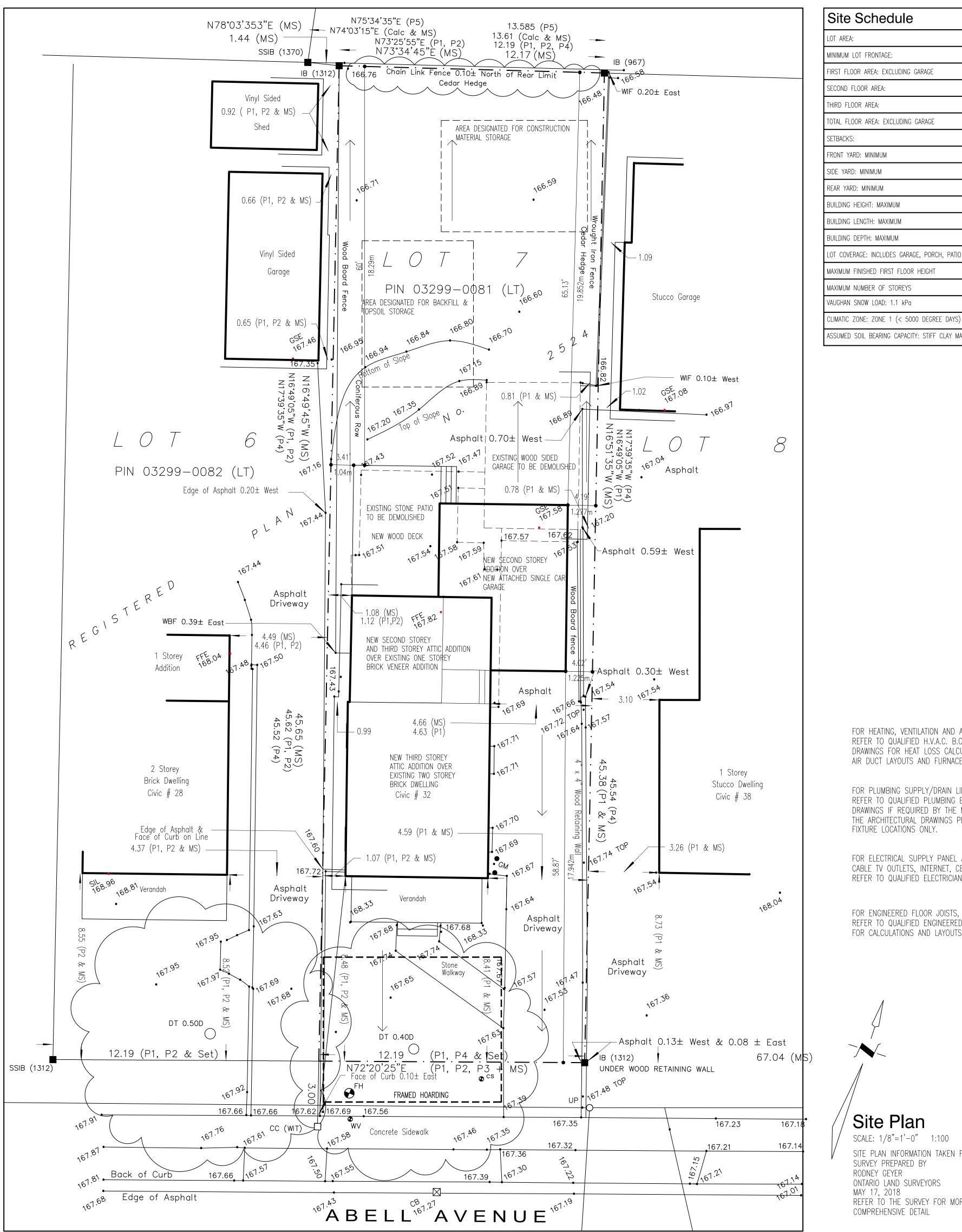
THE STANDARDS

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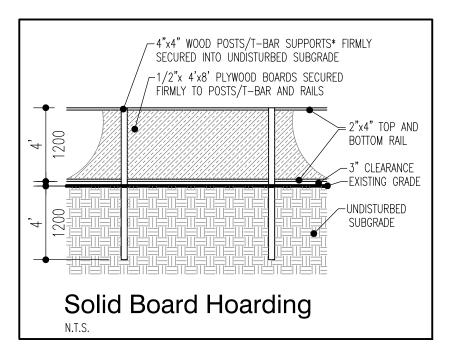
March 30, 2020

### **APPENDIX II**

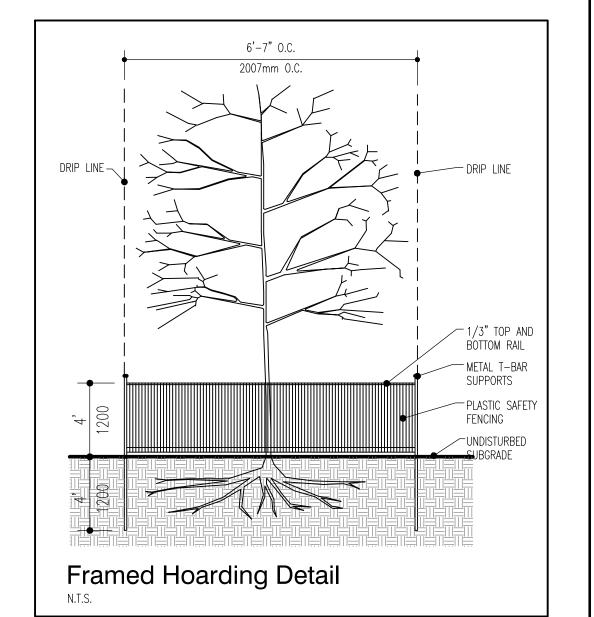
Architectural Drawings



Site Schedule	CITY OF VAUGHAN ZONING BY-LAW 1-88 (R2)	EXISTING	NEW	TOTAL
LOT AREA:	MIN. LOT AREA 4843.76 s.f. (450 s.m.)	5966.5 s.f. (554.31 s.m.)	NOT APPLICABLE	5966.5 s.f. (554.31 s.m.)
MINIMUM LOT FRONTAGE:	49.21' (15.0m)	40.0' (12.19m)	NOT APPLICABLE	40.0' (12.19m)
FIRST FLOOR AREA: EXCLUDING GARAGE		783.5 s.f. (72.79 s.m.)	125.6 s.f. (11.67 s.m.)	909.1 s.f. (84.46 s.m.)
SECOND FLOOR AREA:		562.2 s.f. (52.23 s.m.)	732.8 s.f. (68.08 s.m.)	1295.0 s.f. (120.31 s.m.)
THIRD FLOOR AREA:		NOT APPLICABLE	614.2 s.f. (57.06 s.m.)	614.2 s.f. (57.06 s.m.)
TOTAL FLOOR AREA: EXCLUDING GARAGE		1345.7 s.f. (125.02 s.m.)	1472.6 s.f. (136.81 s.m.)	2818.3 s.f. (261.83 s.m.)
SETBACKS:			•	•
FRONT YARD: MINIMUM	24.61' (7.5m)			
SIDE YARD: MINIMUM	3.94' (1.2m); SIDE YARD SHIFTING 0.3m PERMITTED			
REAR YARD: MINIMUM	24.61' (7.5m)			
BUILDING HEIGHT: MAXIMUM	31.17' (9.5m)	31.62' (9.639m) TO PEAK OF ROOF	31.62' (9.639m) TO PEAK OF ROOF	
BUILDING LENGTH: MAXIMUM	NOT APPLICABLE		50.71' (15.456m)	
BUILDING DEPTH: MAXIMUM	NOT APPLICABLE		50.71' (15.456m)	
LOT COVERAGE: INCLUDES GARAGE, PORCH, PATIO	40%		1684.1 s.f. (156.46 s.m.) 28.2%	
MAXIMUM FINISHED FIRST FLOOR HEIGHT	NOT APPLICABLE		3'-3' (0.991m) FROM ESTABLISHED	GRADE
MAXIMUM NUMBER OF STOREYS	NOT LIMITED			
VAUGHAN SNOW LOAD: 1.1 kPa				



Established Grade Calcula	tions
NORTH SIDE GRADE ELEVATION 0.01m PAST SIDE LOT LINE AT FRONT YARD SETBACK OF 7.5m	105.31
SOUTH SIDE GRADE ELEVATION 0.01m PAST SIDE LOT LINE AT FRONT YARD SETBACK OF 7.5m	105.18
•• (105.31+105.18)/2 = (AVERAGE ELEVATION)	105.25



FOR HEATING, VENTILATION AND AIR CONDITIONING REFER TO QUALIFIED H.V.A.C. B.C.I.N. DESIGNER'S DRAWINGS FOR HEAT LOSS CALCULATIONS, SUPPLY AND RETURN AIR DUCT LAYOUTS AND FURNACE SIZING

ASSUMED SOIL BEARING CAPACITY: STIFF CLAY MAXIMUM ALLOWABLE BEARING PRESSURE 150kPa (3130 PSI)

FOR PLUMBING SUPPLY/DRAIN LINES, VENTING LOCATIONS AND SIZES REFER TO QUALIFIED PLUMBING B.C.I.N. DESIGNER'S DRAWINGS IF REQUIRED BY THE MUNICIPALITY. THE ARCHITECTURAL DRAWINGS PROVIDE PLUMBING FIXTURE LOCATIONS ONLY.

FOR ELECTRICAL SUPPLY PANEL AND SIZE, ELECTRICAL SWITCHES/RECEPTACLES, CABLE TV OUTLETS, INTERNET, CENTRAL VACUUM AND TELEPHONE REFER TO QUALIFIED ELECTRICIAN'S ELECTRICAL PLANS AND REFLECTED CEILING DRAWINGS.

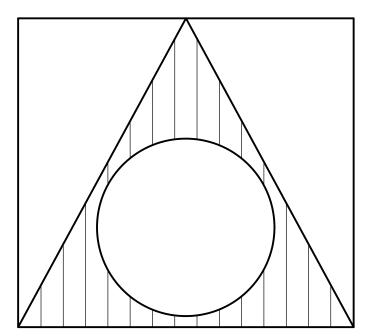
FOR ENGINEERED FLOOR JOISTS, BEAMS AND TRUSSES REFER TO QUALIFIED ENGINEERED STAMPED DRAWINGS FOR CALCULATIONS AND LAYOUTS.

## HOARDING NOTES:

- 1. HOARDING DETAILS TO BE DETERMINED FOLLOWING INITIAL SITE INSPECTION.
- 2. HOARDING TO BE APPROVED BY MUNICIPALITY.
- 3. HOARDING MUST BE SUPPLIED, INSTALLED AND MAINTAINED BY THE APPLICANT THROUGHOUT ALL PHASES OF CONSTRUCTION, UNTIL APPROVAL TO REMOVE HOARDING IS OBTAINED FROM MUNICIPALITY.
- 4. DO NOT ALLOW WATER TO COLLECT AND POND BEHIND OR WITHIN HOARDING. \* T-BAR SUPPORTS FOR SOLID HOARDING WILL ONLY BE ALLOWED WITH PRE APPROVAL FROM DEVELOPMENT AND DESIGN.

## STANDARD NOTES:

- THE PORTIONS OF THE DRIVEWAY WITHIN THE MUNICIPAL BOULEVARD WILL BE PAVED BY THE APPLICANT.
- AT THE ENTRANCES TO THE SITE, THE MUNICIPAL CURB AND SIDEWALK WILL BE CONTINUOUS THROUGH THE DRIVEWAY AND A CURB DEPRESSION WILL BE PROVIDED FOR EACH ENTRANCE
- ALL PROPOSED CURBING WITHIN THE MUNICIPAL BOULEVARD AREA FOR THE SITE IS TO SUIT AS FOLLOWS: FOR ALL SINGLE FAMILY RESIDENTIAL PROPERTIES INCLUDING ON STREET TOWNHOUSES, ALL CURBING IS TO STOP AT THE PROPERTY LIMIT OR THE BACK OF THE MUNICIPAL SIDEWALK, WHICHEVER IS APPLICABLE. ALL EXCESS EXCAVATED MATERIAL WILL BE REMOVED FROM THE SITE. THE EXISTING DRAINAGE PATTERN WILL
- BE MAINTAINED EXCEPT WHERE NOTED. THE APPLICANT WILL BE REQUIRED TO CONTACT ALL UTILITY COMPANIES TO OBTAIN ALL REQIURED LOCATES PRIOR TO THE INSTALLATION OF HOARDING WITHIN THE MUNICIPAL RIGHT OF WAY. THE APPLICANT WILL BE RESPONSIBLE FOR THE COST OF ANY UTILITY RELOCATIONS NECESSITATED BY THE SITE PLAN. PRIOR TO CONSTRUCTION TAKING PLACE, ALL REQUIRED HOARDING IN ACCORDANCE WITH THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS MUST BE ERECTED AND THEN MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION.



## toivo vahi design

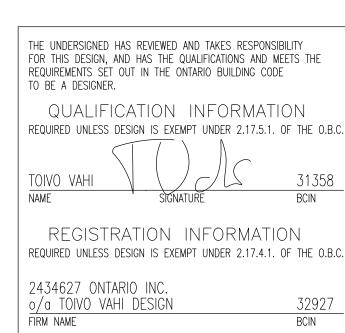
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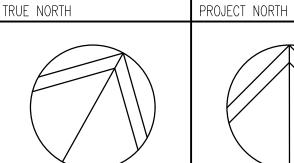


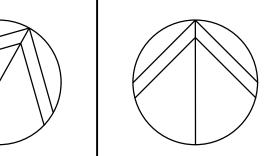
2.	REVISED FOR HERITAGE REVIEW	31/01/20	T.V.
1.	ISSUED FOR PERMIT REVIEW	26/09/19	T.V.
NO.	REVISION	DATE	APPR.

## PROJECT:

NEW TWO STOREY REAR ADDITION WITH ATTACHED GARAGE TO EXISTING TWO STOREY SINGLE FAMILY DWELLING

## 32 Abell Avenue VAUGHAN, ONTARIO





DRAWING CONTENT:

# Site Plan Site Schedule

PROJ. NO.: 2018-0

SEPT. 2018

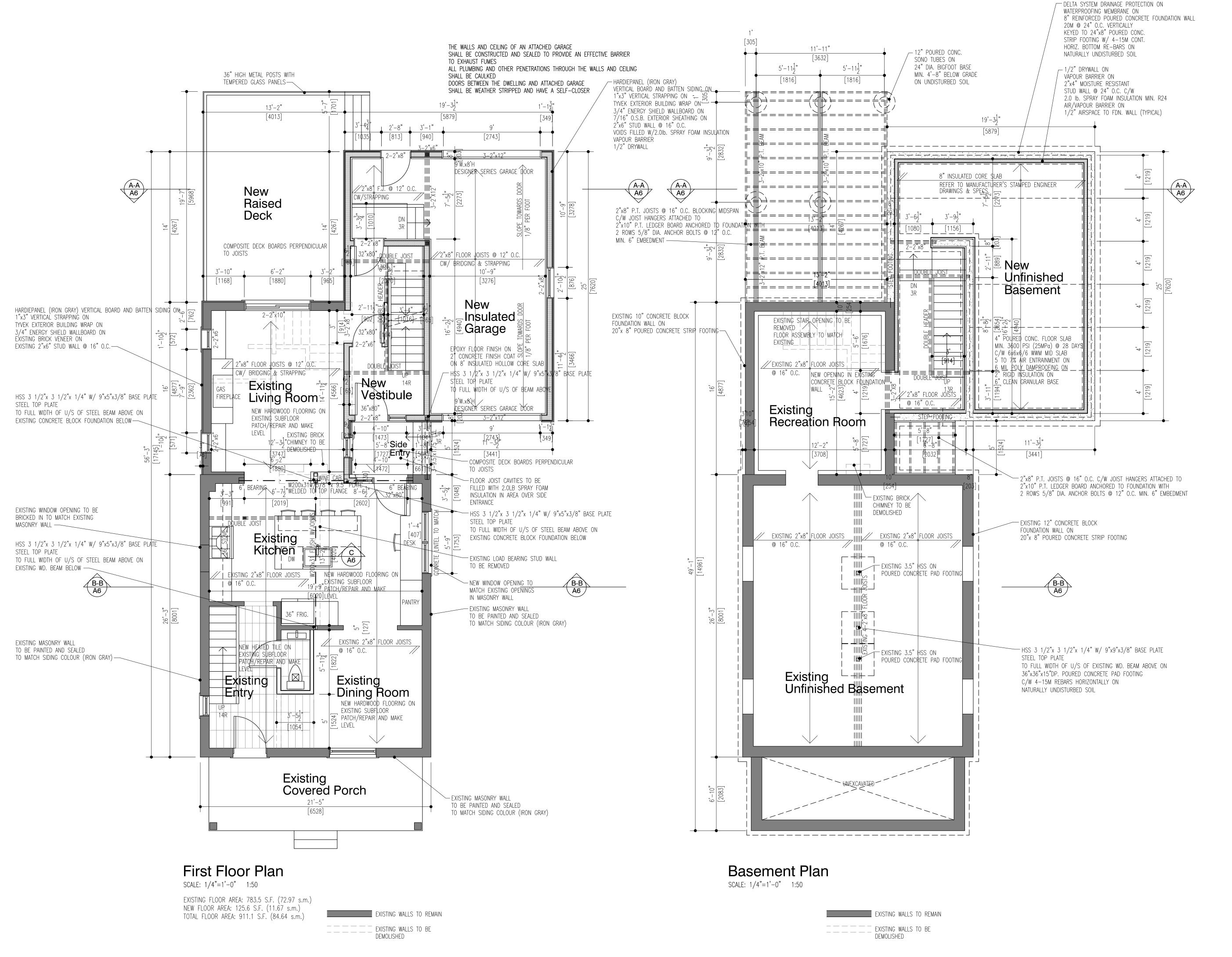
AS NOTED

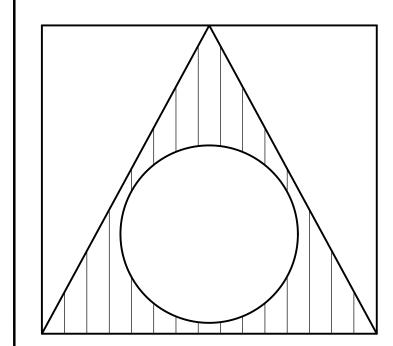
## Site Plan

COMPREHENSIVE DETAIL

SCALE: 1/8"=1'-0" 1:100 SITE PLAN INFORMATION TAKEN FROM SURVEY PREPARED BY RODNEY GEYER

ONTARIO LAND SURVEYORS MAY 17, 2018 REFER TO THE SURVEY FOR MORE





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THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY
FOR THIS DESIGN, AND HAS THE QUALIFICATIONS AND MEETS THE
REQUIREMENTS SET OUT IN THE ONTARIO BUILDING CODE
TO BE A DESIGNER.

QUALIFICATION INFORMATION
REQUIRED UNLESS DESIGN IS EXEMPT UNDER 2.17.5.1. OF THE O.B.C.

REGISTRATION INFORMATION

REQUIRED UNLESS DESIGN IS EXEMPT UNDER 2.17.4.1. OF THE O.B.C.

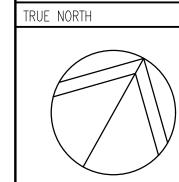
2434627 ONTARIO INC.
o/a TOIVO VAHI DESIGN 32927
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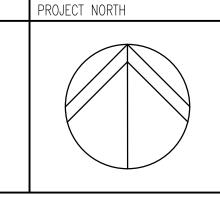
2.	REVISED FOR HERITAGE REVIEW	31/01/20	T.V.
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NO.	REVISION	DATE	APPR.

PROJE

new two storey rear addition with attached garage to existing two storey single family dwelling 32 Abell Avenue

VAUGHAN, ONTARIO





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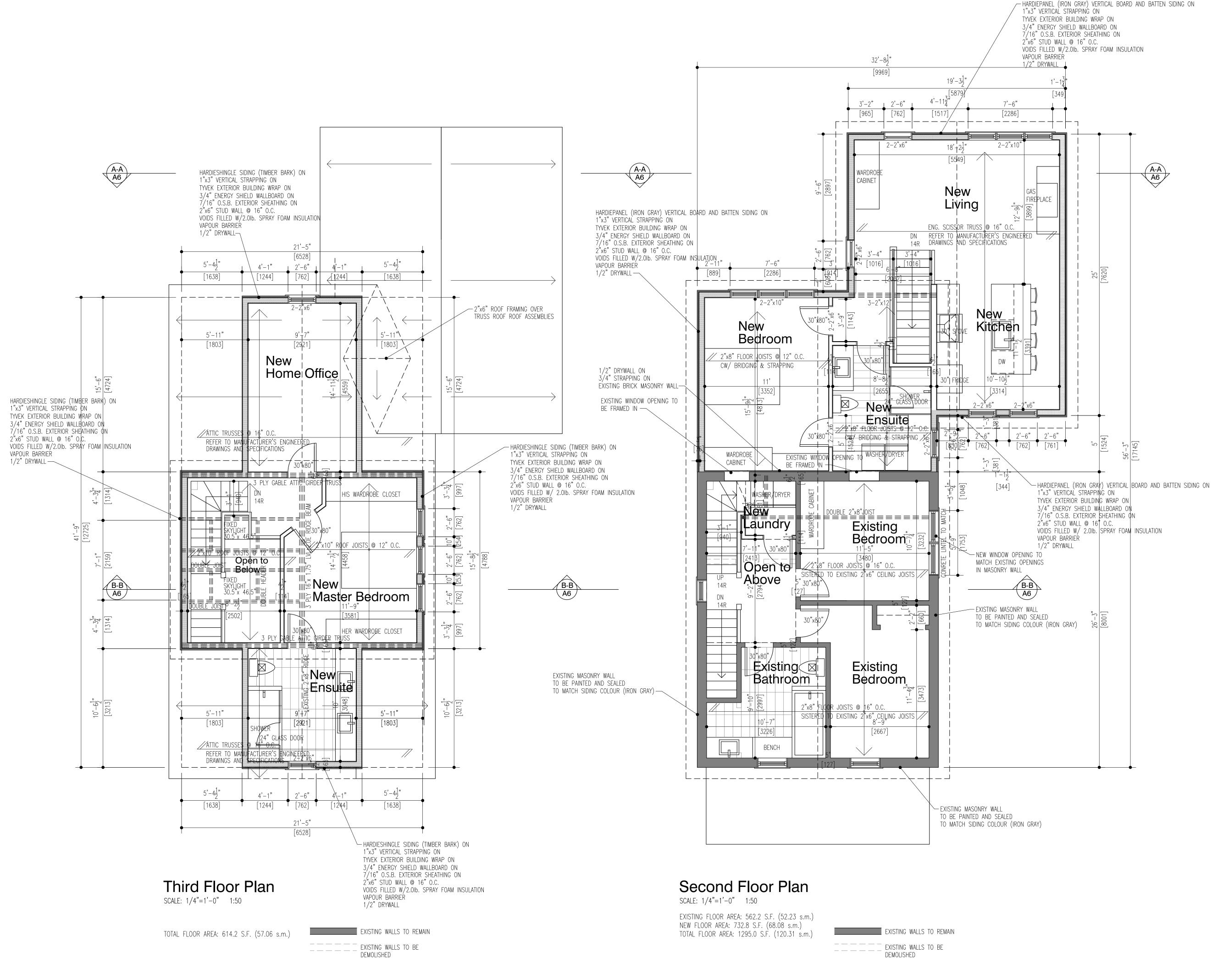
Basement Plan First Floor Plan

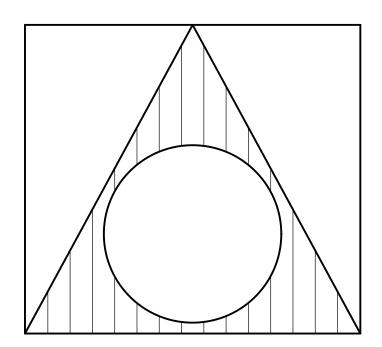
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DATE: SEPT. 2018

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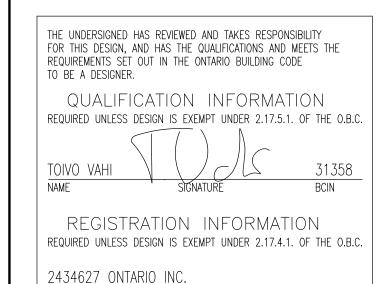
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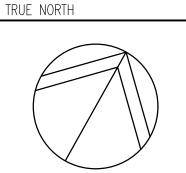
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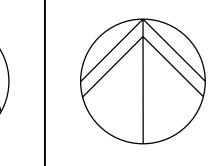
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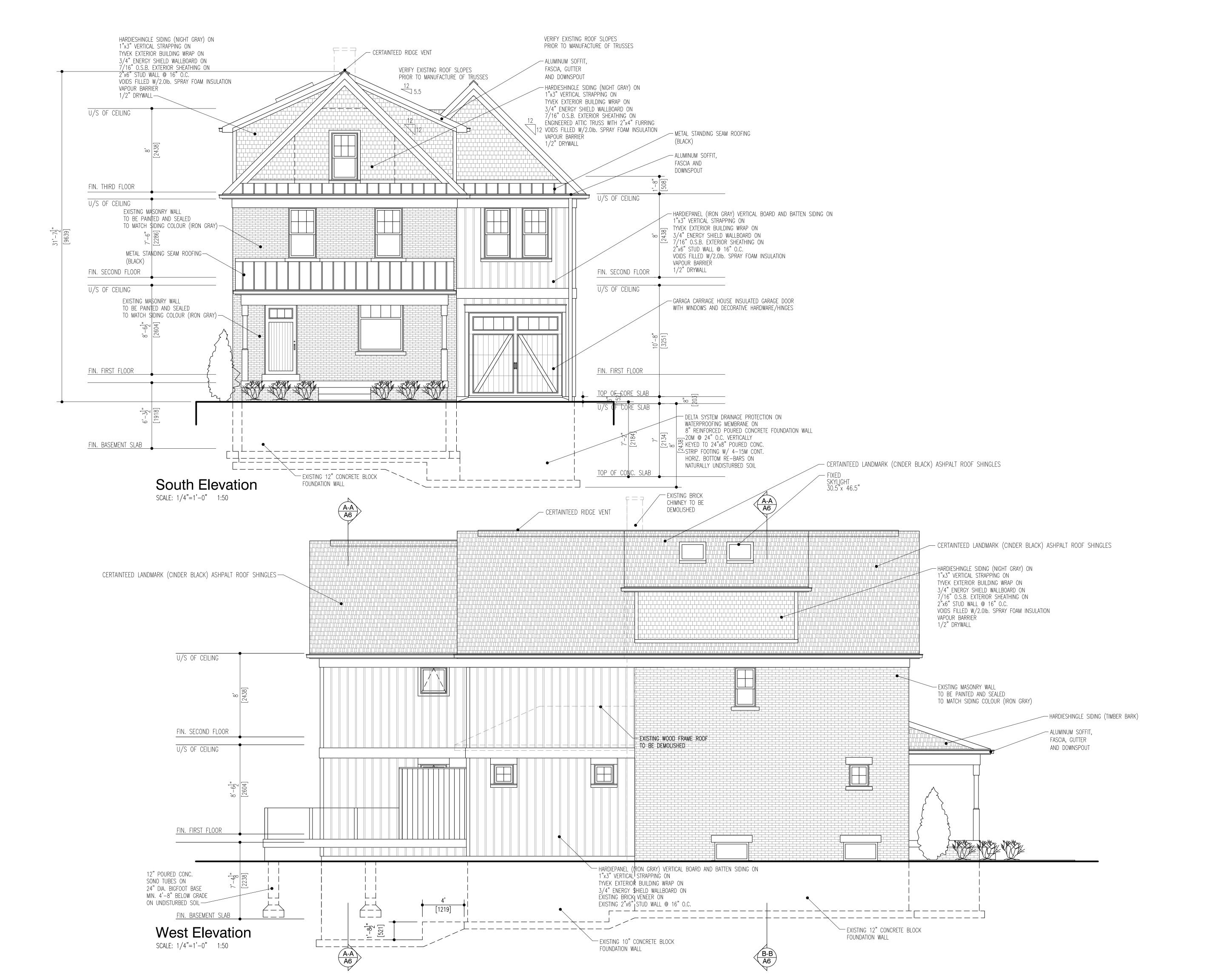
PROJECT NORTH

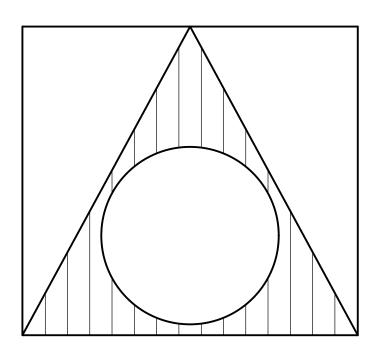
DRAWING CONTENT:

## Second Floor Plan Third Floor Plan

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T.V.	2018-06	

SEPT. 2018





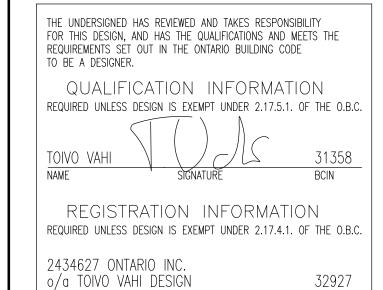
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NU.	KENIZION	DATE	AP

## PROJECT:

FIRM NAME

NEW TWO STOREY REAR ADDITION WITH ATTACHED GARAGE TO EXISTING TWO STOREY SINGLE FAMILY DWELLING

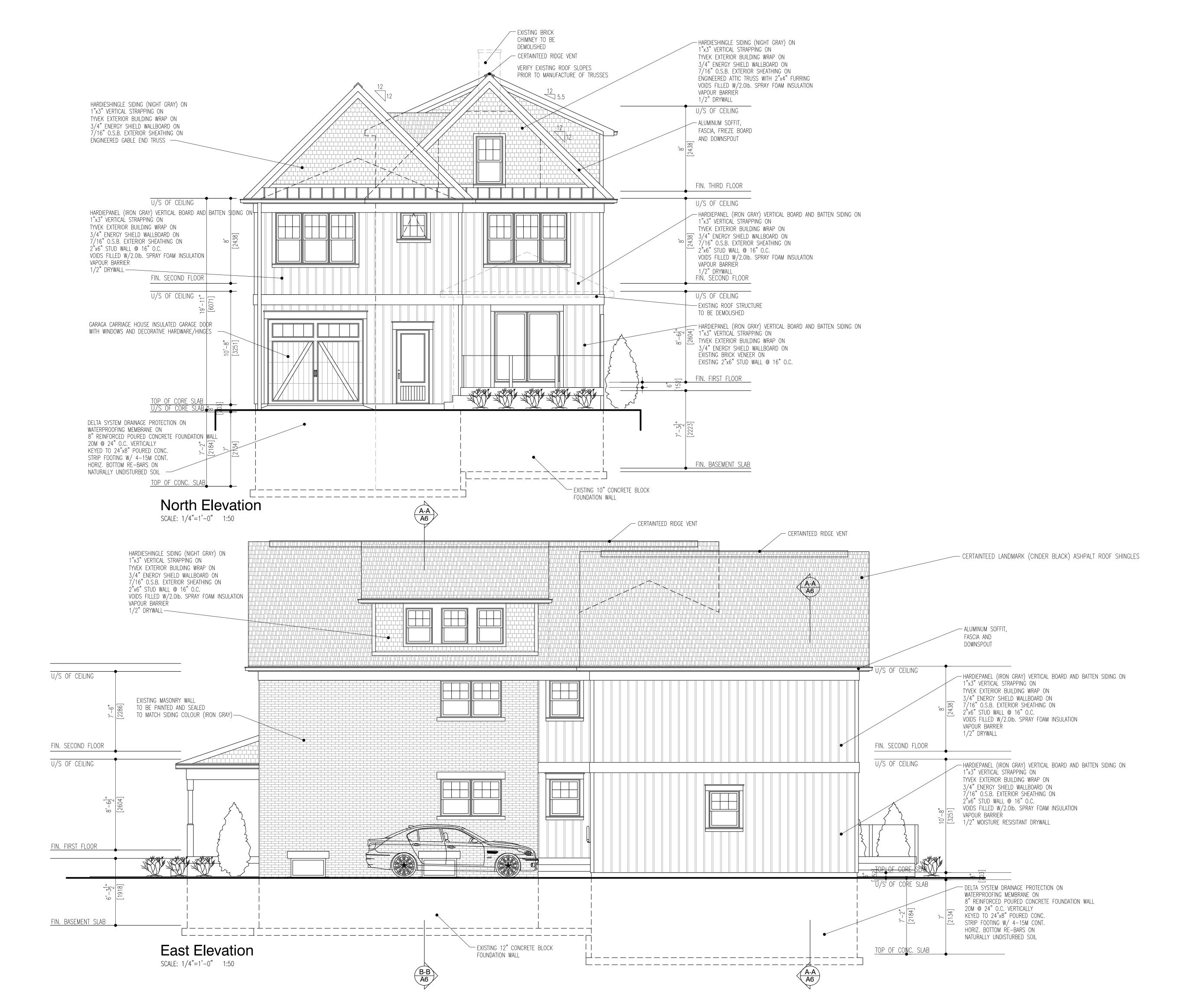
32 Abell Avenue
VAUGHAN, ONTARIO

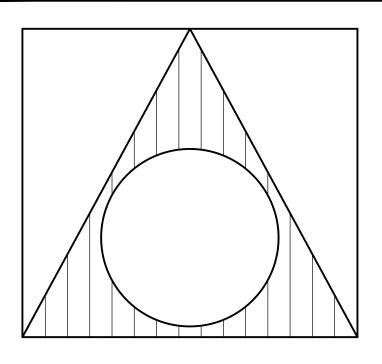
TRUE NORTH	PROJECT NORTH

DRAWING CONTENT:

## Elevations

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DATE: SEPT.	2018	A





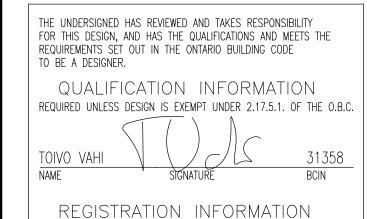
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2434627 ONTARIO INC.
o/a TOIVO VAHI DESIGN 32927
FIRM NAME BCIN

REQUIRED UNLESS DESIGN IS EXEMPT UNDER 2.17.4.1. OF THE O.B.C.

2.	REVISED FOR HERITAGE REVIEW	31/01/20	T.V.
1.	ISSUED FOR PERMIT REVIEW	26/09/19	T.V.
NO.	REVISION	DATE	APPR.

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NEW TWO STOREY REAR ADDITION WITH ATTACHED GARAGE TO EXISTING TWO STOREY SINGLE FAMILY DWELLING

32 Abell Avenue VAUGHAN, ONTARIO

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SCALE:

## General Notes on architectural drawings, engineering drawings and manufacturer's specifications supercede the general notes. All notes must comply to the ontario building code regulations.

### Excavation and Backfill

Excavation shall be undertaken in such a manner • Garage, carport and exterior slabs and exterior so as to prevent damage to existing structures, adjacent property and utilities The topsoil and vegetable matter in unexcavated • Other slabs 3600psi concrete

bottom of excavations for foundations shall be free of all organic material If termites are known to exist, all stumps, roots and wood debris shall be removed to a minimum depth of 11 3/4" in excavated areas under a building, and the clearance between untreated

no less than 17 3/4" Backfill within 23 5/8" of the foundation walls shall be free of deleterious debris and boulders over 9 7/8"in diameter

### Dampproofing and Drainage In normal soil conditions, the exterior surfaces of foundation walls enclosing basements and crawl spaces shall be dampproofed. Where hydrostatic pressure occurs, a waterproofing system is

Masonry foundation walls shall be parged with 1/4" of mortar coved over the footing prior to dampproofing foundation drains shall be laid on level,

undisturbed ground adjacent to the footings at or below the top of the basement slab or crawl space floor, and shall be covered with 6" of crushed stone. Foundation drains shall drain to a storm sewer, drainage ditch, dry well or sump

• Masonry over openings shall be supported on Window wells shall be drained to the footing Downspouts not directly connected to a storm sewer shall have extensions to carry water away from the building, and provisions shall be made

to prevent soil erosion Concrete slabs in attached garages shall be sloped to drain to the exterior The building site shall be graded so that surface,  $\bullet$  Provide weep holes @ 31 1/2" o.c.at the bottom sump and roof drainage will not accumulate at or of the cavity and over doors and windows near the building and will not adversely affect

• Direct drainage through weep holes with 20 mil adjacent properties

## • minimum 2200 psi poured concrete

Footings

 minimum 48" below finished grade Footings shall be founded on natural undisturbed soil, rock or compacted granular fill with minimum bearing capacity of 1570psf Footing Size

Supporting Supporting Ext. Wall Supported 9 7/8" 9 7/8" 4.3 ft2 13 3/4" 17 3′/4" 19 3/4" 10.9 ft2 • Increase footing width by 2 5/8" for each storey

of brick veneer supported, and by 5 1/8" for each storev of masonry • See Tables for roof sheathing requirements • The projection of an unreinforced footing Notching&Drilling of Trusses. beyond the wall supported shall not be greater

### Step Footings Vertical Rise 23 5/8"Max.

than its thickness

Horizontal Run

23 5/8"Min. **Wood Frame Construction** 

## All lumber shall be spruce-pine-fir No.1 &2,

and shall be identified by a grade stamp Maximum moisture content 19% at time of

 Wood framing members which are supported on concrete in direct contact with soil shall be separated from the concrete with 6 mil

Exterior walls shall consist of:

 cladding, brick veneer or stucco sheathing paper lapped 4"at joints • 7/16" fibreboard or gypsum board or 7/16" plywood sheathing 2x6 studs @ 16" o.c.

• 2x6 bottom plate and double 2x6 top plate • 2x4 studs @16"o.c. can be utilized provided the combined R value of the batt insulation and exterior rigid insulation achieves R-24. • Interior loadbearing walls shall consist of:

• 2x4 studs @ 16" o.c. • 2x4 bottom plate and double 2x4 top plate 2x4 mid—girts if not sheathed 1/2" gypsum board sheathing

## Floors

 See Tables for floor joist size and spacing requirements Joists to have minimum 1 1/2" of end bearing

 Joists shall bear on a sill plate fixed to foundation with 1/2" anchor bolts @7' 10" o.c Header joists between 3' 11"and 10' 6" in length shall be doubled. Header joists exceeding

10°6" shall be sized by calculations • Trimmer joists shall be doubled when supported header is between 2' 7" and 6' 7". Trimmer joists shall be sized by calculations when supported header exceeds 6' 7"

• 2x2 cross bridging required not more than 6'11" • Roof vents shall be uniformly distributed and from each support and from other rows of

partitions shall be doubled

• See Tables for subflooring requirements

• Dampproofing shall be a heavy coat of

A drainage layer shall consist of

Density of 3.6 lb/ft<sup>2</sup>

equivalent performance

floor joists installed before backfilling

foundation wall where the interior insulation

• Min. 3/4" mineral fibre insulation with min.

• Foundation walls shall be braced or have the

extends more than 2'-11" below exterior grade.

 Joists shall be supported on joist hangers at all Unheated crawl spaces shall be provided with 1.1  $ft^2$  of ventilation for each 538 ft  $^2$ flush beams, trimmers, and headers. Minimum natural ventilation areas, where Joists located under parallel non-loadbearing

### Unfinished basement: 0.2% of floor area Foundation Walls

Doors and Windows To be poured concrete, unit masonry or • Every floor level containing a bedroom and not preserved wood (see drawings for type and served by an exterior door shall contain at least 1

3.8 ft and no dimension less than 15", which is bituminous material. openable from the inside without tools • Foundation wall to extend minimum 5 7/8" • Exterior house doors and windows within 6' 7" above finished grade. from grade shall be constructed to resist forced • A drainage layer is required on the outside of a entry. Doors shall have a deadbolt lock

 The principal entry door shall have either a door viewer, transparent glazing or a sidelight

## Exterior Walls

 No windows or other unprotected openings are • Min. 4" of free drainage granular material, permitted in exterior walls less than 3' 11" from property lines • 5/8" fire rated drywall shall be installed on the An approved system which provides

inside face of attached garage exterior walls and gable ends of roofs which are less than 3' 11" rom property lines Non combustible cladding shall be installed on all exterior walls less than 23 5/8" from property

## Ceramic Tile

adhesive, the bed shall be a minimum of 1/2" thick & reinforced with galvanized diamond mesh lath, applied over polyethylene on subflooring on joists at no more than 16"o.c. with at least 2 rows cross bridging

### Concrete Floor Slabs

and Crawl Spaces steps shall be 4650psi concrete with 5-8%air Access hatch minimum 21 5/8"x 2' -11" to be

### areas under a building shall be removed. The • Minimum 3" thick, placed on a minimum4" of coarse, clean, granular material

### All fill other than coarse clean material placed beneath concrete slabs shall be compacted to provide uniform support

## Masonry Walls

least 3 joists @ 6'-7" o.c.

completely filled with mortar

3 1/2"thick if joints are raked

Minimum 1" air space to sheathing

behind the sheathing paper

Roofing

least 4 nails

5/8" wide

1/2" into roof sheathing

greater than 1/3 joist depth

Masonry Veneer

with No.15 breather—type asphalt paper

For reduced foundation walls to allow a brick

facing while maintaining lateral support, tie

minimum 3 1/2" brick to minimum 3 1/2" back-

up block with corrosion resistant ties at least

vertically and 2'-11"horizontally, with joints

with a minimum of 5 7/8" end bearing

poly flashing extending minimum 5 7/8" up

• Veneer ties minimum 0.030" thick x 7/8" wide

Fasten ties with corrosion resistant 0.125"

located on top of the member within 1/2 the

• Wall studs may be notched or drilled provided

• Fasteners for roofing shall be corrosion resistant.

• Every asphalt shingle shall be fastened with at

• Eave protection shall extend 2' 11"up the roof

slope from the edge, and at least 11 3/4"from

the inside face of the exterior wall, and shall

consist of Type M or Type S Roll Roofing laid

with minimum 4" head and end laps cemented

membranes consisting of modified bituminous

for unheated buildings, for roofs exceeding a

roll roofing, or 1 layer of sheet metal min. 23

Flashing shall be provided at the intersection of

shingle roofs with exterior walls and chimneys

• Sheet metal flashing shall consist of not less than

1/16"sheet lead, 0.013" galvanized steel, 0.018" copper, 0.018" zinc, or 0.019"aluminum

Every roof space above an insulated ceiling shall

be ventilated with unobstructed openings equal

to not less than 1/300 of insulated area

Insulated roof spaces not incorporating an attic

shall be ventilated with unobstructed openings

equal to not less than 1/150 of insulated area.

designed to prevent the entry of rain, snow or

mechanical ventilation is not provided, are:

window, having an unobstructed open area of

slope of 1 in 1.5, or where a low slope asphalt

base sheets, or self sealing composite

Open valleys shall be flashed with 2 layers of

shingle application is provided

Natural Ventilation

together, or glass Fibre or Polyester Fibre coated

coated material. Eave protection is not required

actual depth from the edge of bearing and not

vertically and 15 3/4" horizontally

corrosion resistant straps spaced @ 23 5/8"

diameter screws or spiral nails which penetrate at

0.028in in cross sectional area, spaced 7 7/8"

corrosion resistant or prime painted steel lintels

structural wood elements and the ground shall be • Where constructed of 3 1/2" brick, wall shall be bonded with header course every 6th course Provide 2" solid masonry or continuous 1 1/2" plate under all roof and floor framing members

#### weatherstripped and have a self-closer Provide 7 1/2" solid masonry under beams and Alarms and Detectors

At least one smoke alarm shall be installed on or Masonry wall to be tied to each tier of joists with near the ceiling on each floor and basement level 1 9/16" x 3/16" corrosion resistant steel straps, 11" or more above an adjacent level keyed minimum 4" into masonry. When joists Smoke alarms shall be interconnected and are parallel to wall, ties are to extend across at located such that one is within 16' 5" of every bedroom door and no more than 49' 3" travel Inside back of wall to be parged and covered

distance from any point on a floor

Access to Attics

than 23 5/8" in height

Garage Gasproofing

provided to every crawl space and every roof

The walls and ceiling of an attached garage shall

All plumbing and other penetrations through the

Doors between the dwelling and attached garage

may not open into a bedroom and shall be

effective barrier to exhaust fumes

walls and ceiling shall be caulked

be constructed and sealed so as to provide an

space which is  $108 \text{ ft}^2$  or more in area and more

## solid fuel burning fireplace or stove

Columns, Beams & Lintels

• Steel beams and columns shall be shop primed. Minimum 3 1/2" end bearing for wood and steel beams, with 7 7/8" solid masonry beneath the

A carbon monoxide detector shall be installed on

or near the ceiling in every room containing a

 Steel columns to have minimum outside diameter of 2 7/8" and minimum wall thickness

• Minimum 2 3/4" thick if joints are not raked and • Wood columns for carports and garages shall be minimum  $3 \frac{1}{2}$ " x  $3 \frac{1}{2}$ "; in all other cases either  $5 \frac{1}{2}$ " x  $5 \frac{1}{2}$ " or  $7 \frac{1}{4}$ " round, unless calculations based on actual loads show lesser sizes are adequate. All columns shall be not less than the width of the supported member

 Masonry columns shall be a minimum of 11 3/8" x 11 3/8"or 9 1/2" x 15"

### Provide solid blocking the full width of the supported member under all concentrated loads

Insulation & Weatherproofing

least 1–3/16" into studs	Zone 1 Less than 5000 Degree-Days with AFUE $\geq$ 90%	Compliance P	ackage A
<ul> <li>Roof &amp; Ceilings</li> <li>See Tables for rafter, roof joist and ceiling joist size and spacing requirements</li> <li>Hip and valley rafter shall be 2" deeper than common rafters</li> <li>2x4 collar ties @ rafter spacing with 1x4 continuous brace at mid span if collar tie exceeds 7' 10" in length</li> <li>See Tables for roof sheathing requirements</li> </ul>	Ceiling with attic Ceiling without attic Exposed floor Walls above grade Basement walls Below grade slab entire surface > 600mm below grade Edge of below grade slab < 600mm below grade	RSI/R Value RSI/R Value RSI/R Value RSI/R Value RSI/R Value RSI/R Value	5.46 / 5.46 / 4.23 / 3.52 / 0.88 /
<ul> <li>Notching&amp;Drilling of Trusses,</li> <li>Joists, Rafters</li> <li>Holes in floor, roof and ceiling members to be maximum 1/4 x actual depth of member and not less than 2" from edges</li> <li>Notches in floor, roof and ceiling members to be</li> </ul>	Heated slab or slab ≤ 600mm below grade Windows and sliding glass doors maximum U-Value Skylights maximum U-Value Space heating equipment minimum AFUE	RSI/R Value 1.6 2.8 90%	1.76 /

Minimum Efficiency unfinished basements where Ducts passing through unheated space shall be

that no less than2/3the depth of the stud remains, if load bearing, and 19/16" if non-load made airtight with tape or sealant • Caulking shall be provided for all exterior doors Roof truss members shall not be notched, drilled and windows between the frame and the exterior or weakened unless accommodated in the design

 Weatherstripping shall be provided on all doors and access hatches to the exterior, except doors from a garage to the exterior

Roofing nails shall penetrate through or at least 

• Exterior walls, ceilings and floors shall be constructed so as to provide a continuous barrier to the passage of water vapour from the interior and to the leakage of air from the exterior

## Stairs

 Maximum Rise 8 1/4" Minimum Run 9 1/4 Minimum Tread

 Minimum Head Room Minimum Width Curved stairs shall have a min. run of 5 7/8" a any point and a minimum average run of 7/8

 Winders which converge to a point in stairs must turn through an angle of no more than 90 , with no less than  $30^{\circ}$  or more than 45  $^{\circ}$  per tread. Sets of winders must be separated by 3' 11"along the

• A landing minimum 2' 11"in length is required at the top of any stair leading to the principal entrance to a dwelling, and other entrances with more than 3 risers

• Exterior concrete stairs with more than 2 risers require foundations

## Handrails and Guards

 A handrail is required for interior stairs containing more than 2 risers and exterior stairs containing more than 3 risers Guards are required around every accessible surface which is more than 23 5/8" above the

adjacent level • Interior and exterior guards min. 2' 11" high. Exterior guards shall be 3' 6" high where height

above adjacent surface exceeds 5' 11" Guards shall have no openings greater than 4", and no member between 4" and 2' 11" that will

## Plumbing

• Every dwelling requires a kitchen sink, lavatory, water closet, bathtub or shower stall and the installation or availability of laundry facilities A floor drain shall be installed in the basement,

and connected to the sanitary sewer where gravity drainage is possible. In other cases, it shall be connected to a storm drainage system, ditch or dry well

## Electrical

• An exterior light controlled by an interior switch is required at every entrance A light controlled by a switch is required in every kitchen, bedroom, living room, utility room, laundry room, dining room, bathroom, vestibule, hallway, garage and carport. A switched receptacle may be provided instead of a

• Stairs shall be lighted, and except where serving an unfinished basement shall be controlled by a 3 way switch at the head and foot of the stairs

light in bedrooms and living rooms

### Basements require a light for each 323 ft, controlled by a switch at the head of the stairs Mechanical Ventilation

• A mechanical ventilation system is required with a total capacity at least equal to the sum of: • 10 cfm each for basement and master bedroom When ceramic tile applied to a mortar bed with
 5 cfm for each other room A principal dwelling exhaust fan shall be

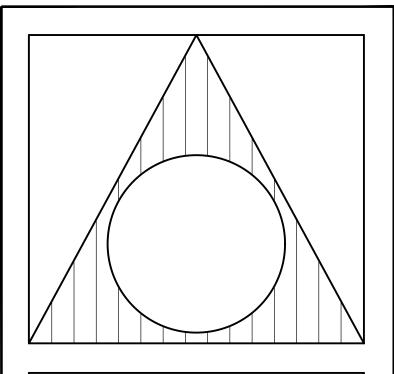
installed and controlled by a centrally located

switch identified as such

• Supplemental exhaust shall be installed so that the total capacity of all kitchen, bathroom and other exhausts , less the principal exhaust, is not less than the total required capacity A Heat Recovery Ventilator may be employed in lieu of exhaust to provide ventilation. An HRV

is required if any solid fuel burning appliances Supply air intakes shall be located so as to avoid contamination from exhaust outlets

CERTAINTEED LANDMARK (CINDER BLACK) ASHPALT ROOF SHINGLES ON ROOF MEMBRANE ON 1/2" PLYWOOD ROOF SHEATHING ON U/S OF CEILING ENGINEERED SCISSOR TRUSSES @ 16"O.C. -HARDIESHINGLE SIDING (NIGHT GRAY) ON R60 LOOSE FILL INSULATION ON 1"x3" VERTICAL STRAPPING ON VAPOUR BARRIER TYVEK EXTERIOR BUILDING WRAP ON 1/2" DRYWALL — 3/4" ENERGY SHIELD WALLBOARD ON 7/16" O.S.B. EXTERIOR SHEATHING ON 2"x6" STUD WALL @ 16" O.C. VOIDS FILLED W/2.01b. SPRAY FOAM INSULATION VAPOUR BARRIER 1/2" DRYWALL FIN. THIRD FLOOR HARDIEPANEL (IRON GRAY) VERTICAL BOARD AND BATTEN SIDING ON 1"x3" VERTICAL STRAPPING ON U/S OF CEILING U/S OF CEILING TYVEK EXTERIOR BUILDING WRAP ON 3/4" ENERGY SHIELD WALLBOARD ON CONTINUOUS VENT STRIP 7/16" O.S.B. EXTERIOR SHEATHING ON 2"x6" STUD WALL @ 16" O.C. VOIDS FILLED W/2.0Ib. SPRAY FOAM INSULATION HARDWOOD FLOORING ON VAPOUR BARRIER |"|T&G PLYWODD SUBFLOOR |ON| 1/2" DRYWALL -EXISTING WOOD FRAME ROOF W/121.01b. SPRAY TO BE DEMOLISHED FIN. SECOND FLOOR FIN. SECOND FLOOR U/S OF CEILING U/S OF CEILING THE WALLS AND CEILING OF AN ATTACHED GARAGE SHALL BE CONSTRUCTED AND SEALED TO PROVIDE AN EFFECTIVE BARRIER HARDIEPANEL (IRON GRAY) TO EXHAUST FUMES -36" HIGH TEMPERED GLASS GUARD VERTICAL BOARD AND BATTEN SIDING ON PLUMBING, AND OTHER PENETRATIONS THROUGH THE WALLS AND CEIL WITH METAL POST SYSTEM ANCHORED 1"x3" VERTICAL STRAPPING ON 'ISHALLI BE CAULKEID I TO DECK TYVEK EXTERIOR BUILDING WRAP ON REFER TO MANUFACTURER'S ENGINEERED SPECIFICATIONS 3/4" ENERGY SHIELD WALLBOARD ON <del>all be weather stripped and h</del>ave a \$elf-closer 7/16" O.S.B. EXTERIOR SHEATHING ON Garage 2"x6" STUD WALL @ 16" O.C. — COMPOSITE DECK BOARDS PERPENDICULAR VOIDS FILLED W/2.0Ib. SPRAY FOAM INSULATION TO JOISTS VAPOUR BARRIER 1/2" MOISTURE RESISTANT DRYWALL-FIN. FIRST FLOOR CONCRETE FINHSH COAT ON B'| INSULATED HOLLOW | CORE <sup>'</sup> R31 — 3-2"x10" Р.Т. ВЕАМ R24 ′ R20 DELTA SYSTEM DRAINAGE PROTECTION ON — 3−2"x10" Р 2"x8" P.T. JOISTS @ 16" O.C. BLOCKING MIDSPAN WATERPROOFING MEMBRANE ON C/W JOIST HANGERS ATTACHED TO 8" REINFORCED POURED CONCRETE FOUNDATION WALL 2"x10" P.T. LEDGER BOARD ANCHORED TO FOUNDATION WITH 15M @ 16" HORIZ. & VERT. O.C. Unfinished Basement 2 ROWS 5/8" DIA. ANCHOR BOLTS @ 12" O.C. KEYED TO 24"x8" POURED CONC. MIN. 6" EMBEDMENT STRIP FOOTING W/ 4-15M CONT. HORIZ. BOTTOM RE-BARS ON FIN. BASEMENT SLAB NATURALLY UNDISTURBED SOIL-REFER TO STRUCTURAL ENGINEER'S DRAWINGS ─ 12" POURED CONC. SONO TUBES ON 4" DIA. FILTER SOCKED WEEPING ROOF VENTILATION 24" DIA. BIGFOOT BASE TILE WITH MIN. 6" CRUSHED 1:150 OF THE INSULATED MIN. 4'-8" BELOW GRADE STONE COVER-19'-35 CEILING AREA ON UNDIŞTURBED SOIL UNIFORMLY DISTRIBUTED [5879] [4089] MIN. 2 1/2" AIRSPACE - 4" POURED CONC. FLOOR SLAB MIN. 3600 PSI (25MPa) @ 28 DAYS FROM U/S OF ROOF SHEATHING TO C/W 6x6x6/6 WWM MID SLAB TOP OF INSULATION **Cross Section** - CERTAINTEED RIDGE VENT 5 TO 7% AIR ENTRAINMENT ON POLYSTYRENE MOOR CHANNEL VENTS VERIFY EXISTING ROOF SLOPES 6 MIL POLY DAMPROOFING ON FROM SOFFIT TO RIDGE IN JOISTS SPACES PRIOR TO MANUFACTURE OF TRUSSES 2" RIGID INSULATION ON 3 PLY 16"x 1.75" LVL 2.0E RIDGE BEAM — 6" CLEAN GRANULAR BASE 3 PLY ATTIC GIRDER TRUSS BEYOND -CERTAINTEED LANDMARK (CINDER BLACK) -ROOF SHINGLES ON ROOF MEMBRANE ON 1/2" PLYWOOD ROOF SHEATHING ON -NEW W200x31 STEEL 2<sup>"</sup>x10" ROOF JOISTS @ 12" O.C. BEAM TO U/S OF EXISTING R60 2.0lb. SPRAY FOAM INSULATION ON SUBFLOOR VAPOUR BARRIER ALUMINUM SOFFIT, 1/2" DRYWALL HARDWOOD FLOORING ON FASCIA, FRIEZE BOARD EXISTING SUBFLOOR ON HARDIESHINGLE SIDING (NIGHT GRAY) ON EXISTING 2"x8" FLOOR JOISTS @ 16" O.C. AND DOWNSPOUT -Master Bedroom 1"x3" VERTICAL STRAPPING ON CONTINUOUS VENT STRIP — TYVEK EXTERIOR BUILDING WRAP ON **Existing Bedroom** HARDIESHINGLE SIDING (NIGHT GRAY) ON 3/4" ENERGY SHIELD WALLBOARD ON -PROVIDE SIMPSON STRONG TIE 1"x3" VERTICAL STRAPPING ON 7/16" O.S.B. EXTERIOR SHEATHING ON &GIPILYWDOD SUBFLOOR ON JOIST HANGERS TYVEK EXTERIOR BUILDING WRAP ON 2"x6" STUD WALL @ 16" O.C. FLOOR JOISTS @ 16"| Cl.C. RED TO EX. 2"x6" CEILING JOISTS— FOR END SUPPORTS VOIDS FILLED W/2.0Ib. SPRAY FOAM INSULATION 3/4" ENERGY SHIELD WALLBOARD ON VAPOUR BARRIER FIN. THIRD FLOOR 7/16" O.S.B. EXTERIOR SHEATHING ON 2"x6" STUD WALL @ 16" O.C. 1/2" DRYWALL VOIDS FILLED W/2.01b. SPRAY FOAM INSULATION U/S OF CEILING ─NEW 1/2" DRYWALL ON VAPOUR BARRIER 1/2" DRYWALL -1"x3" STRAPPING PERPENDICULAR TO JOISTS Existing (C) (A6) @ 16" O.C. `-2-2"x8" JOIST SUPPORT BOLTED Bedroom WITH 1/2" DIA. CARRIAGE BOLTS EXISTING 2"x8" FLOOR ASSEMBLY @ 24" O.C. THROUGH STEEL WEB @16"O.C. Existing FIN. SECOND FLOOR Kitchen ─EXISTING 2"x4" LOAD BEARING U/S OF CEILING WALL TO BE REMOVED Flush Beam Section Existing <u></u> SCALE: 1/2"=1'-0" 1:25 Kitchen FIN. FIRST FLOOR -EXISTING 2"x8" FLOOR ASSEMBLY @16" O.C. ─EXISTING 4-2"x8" BEAM Existing Unfinished Basement Cross Section
SCALE: 1/4"=1'-0" 1:50 — EXISTING 12" CONCRETE BLOCK FOUNDATION WALL FIN. BASEMENT SLAB



## toivo vahi design

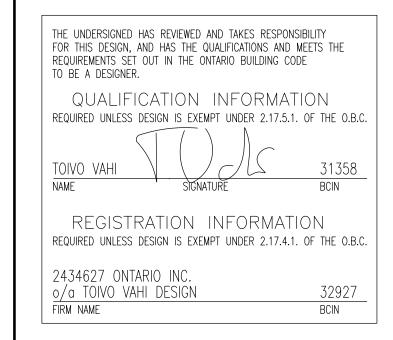
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TRUE NORTH

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32 Abell Avenue VAUGHAN, ONTARIO

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RAWING CONTENT:

- EXISTING CONCRETE FLOOR SLAB

Sections

PROJ. NO.: DRAWING NO.: 2018-06

SEPT. 2018 SCALE: AS NOTED