

Site Data		
Lot Area	1,617.75 sm	(0.1618 ha)
Zoning	SR3	
Established Grade	173.72	
Floor Area		
Ground Floor	287.92 sm	3099.2 sf
Second Floor	262.63 sm	2827.0 sf
(Excludes 60.8 sf of Stairs and 967.7 sf of O.T.B.)		
Total Floor Area	550.54 sm	5926.2 sf
Garage	55.11 sm	593.2 sf
(Measured to Exterior Face of Garage Walls)		
Total Gross Floor Area	605.65 sm	6519.4 sf
Garage	50.72 sm	546.0 sf
(Measured to Inside Face of Garage Walls)		
Finished Basement	231.63 sm	2493.3 sf
(Measured to Inside Face of Finished Basement Walls)		
Lot Coverage		
Proposed Footprint (including Garage)	21.20%	343.04 sm
Proposed Covered Porches	3.95%	63.76 sm
Total Proposed Coverage	25.15%	406.80 sm
Max Allowed Coverage	33.33%	539.25 sm
Landscaping		
Front Yard Area	58.74%	437.86 sm
Landscape Soft Area		248.33 sm

**Notes:**

Prior To Submitting A Building Permit Application, The Builder Shall Have Individual Siting Plans For Each Lot Approved By The Subdivider's Consulting Engineer, Which Comply With The Approved Subdivision Grading Plans And Composite Utility Plans. Siting Plans Shall Include As Constructed Sanitary And Storm Service Connection Invert Elevations At The Street Line For Each Lot.

Where Indicated On This Plan, Lots Which Abut The Subdivision Limit Shall Be Graded To Provide A Minimum 0.6 Metre Strip Of Undisturbed Land Adjacent To The Subdivision Limit. All Embankments Required For The Grading Of The Lots Shall Commence At The Inside Edge Of This Strip Of Land.

Drainage Swales Shall Be Constructed By The Builder On The Property Line And To The Grades, Depths And Sections Specified Herein:

Minimum Depth = 0.15. Maximum Depth = 0.50m  
Minimum Gradient = 2.00%. Maximum Gradient = 5.00%  
3:1 Maximum Side Slopes

All Embankments Formed During Lot Grading Shall Have A Maximum Five (5) Horizontal To One (1) Vertical Slope.

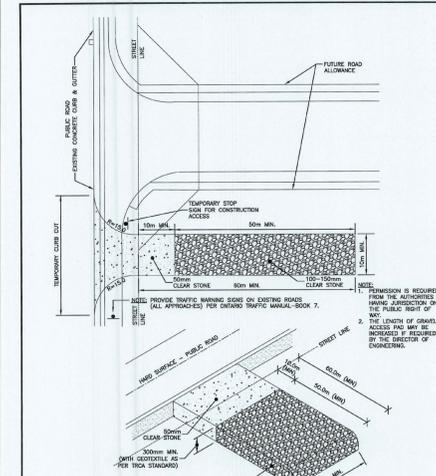
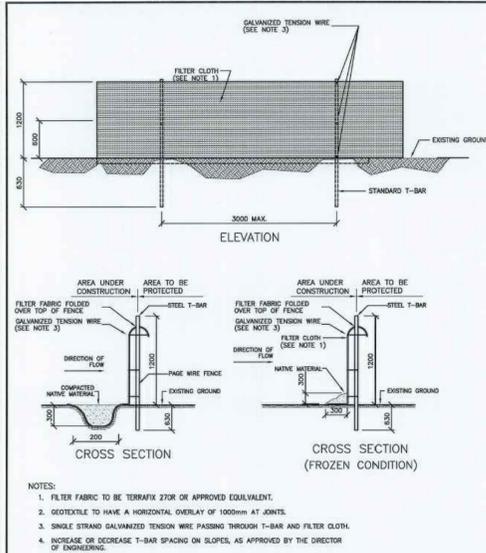
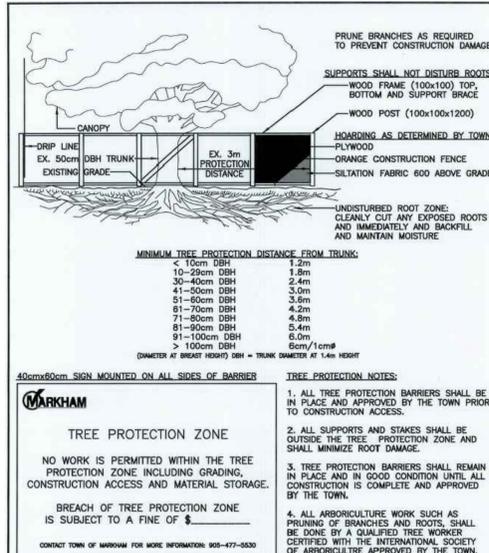
Driveways Shall Not Be Used As An Outlet For Any Side Yard Swales.

Driveways Shall Have A Gradient Between 2.00% To 8.00%.

Retaining Wall Designs Shall Be As Per Manufacturer's Specifications And Are To Be Stamped By The Structural Design Engineer. All Retaining Walls Are To Be Inspected By A Consulting Engineer During Construction And Certified Upon Completion Prior To Release Of Grading Deposit.

When A Separation Between Houses Is Less Than 3.0 Metres, Place 19mm Of Clear Stone To A Depth Of 100mm In Place Of Topsoil & Sod. A Positive Grade Away From The House At Subgrade Level Is Mandatory.

Underside Of Basement Floor Shall Be Min. 0.5m Above The 100 Year Hydraulic Grade Line.



**MARKHAM ENGINEERING DEPARTMENT**

DRAWING NAME: TREE PRESERVATION DETAILS

SCALE: NTS

REV: 0

DATE: SEPTEMBER 2010

APPROVED BY: [Signature]

DWG. NO.: MPI2

**MARKHAM ENGINEERING DEPARTMENT**

DRAWING NAME: STANDARD SEDIMENT CONTROL FENCE

SCALE: NTS

REV: 0

DATE: SEPTEMBER 2010

APPROVED BY: [Signature]

DWG. NO.: MPI1

**MARKHAM ENGINEERING DEPARTMENT**

DRAWING NAME: TEMPORARY GRAVEL ACCESS PAD (MUD MAT)

SCALE: NTS

REV: 0

DATE: SEPTEMBER 2010

APPROVED BY: [Signature]

DWG. NO.: MP7

**Legend**

3R	Main Level
3R	Lower Level
---	Property Line
---	Existing To Be Removed
102.05	Existing Spot Elevation
102.05	Proposed Spot Elevation
AC	Rainwater Downspouts
AC	Air Conditioner
---	Solid Hoarding
---	Framed Hoarding
AD	Area Drain
0.300C	Denotes Coniferous Tree (with trunk diameter) To Remain
0.300C	Denotes Deciduous Tree (with trunk diameter) To Remain
0.300C	Denotes Tree (with trunk diameter) To Be Removed
SM	Denotes Replacement Tree Native Species Min 60mm Caliper For Deciduous And 1.8m Height For Coniferous (SM) Refers To Sugar Maple (RM) Refers To Red Maple

**Base Information:**

Base Information Taken From Plan Of Survey By: erf surveyors Dated: March 30, 2015

**Location:**

Lot 75  
Registered Plan 6350  
City of Markham  
Regional Municipality Of York

**City Benchmark:**

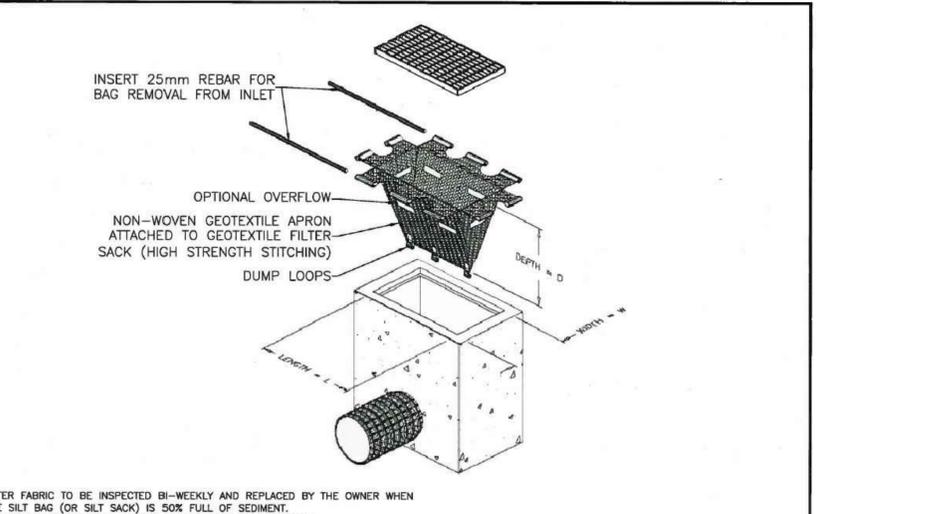
Elevations Are Referenced To The City Of Markham No. M-03-08, Having An Elevation Of 168.02meters

**\*TFW (Top Of Foundation Wall)**

Floor Sill Plate On Inside Face Of Foundation.  
- See Reduced Thickened Foundation Wall Detail & Reverse Veneer Detail For Foundation Wall Wedge Condition On Outside Face Of Foundation Walls.  
- Extent Of Each Type To Be Determined By Contractor On Site During Construction

**\*\*U/F (Under Side Of Footing)**

- U/F Denotes Minimum Depth Of Under Side Of Footing
- Under Side Of Footing May Differ Depending On Basement Conditions. See Floor Plans And Elevations For Specific Under Side Of Footing Conditions.
- Footings To Be Min 1.2m Below Grade



**MARKHAM ENGINEERING DEPARTMENT**

DRAWING NAME: STREET CATCHBASIN SEDIMENT TRAP DETAIL

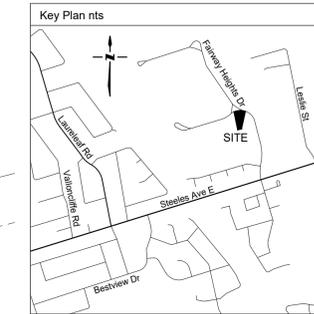
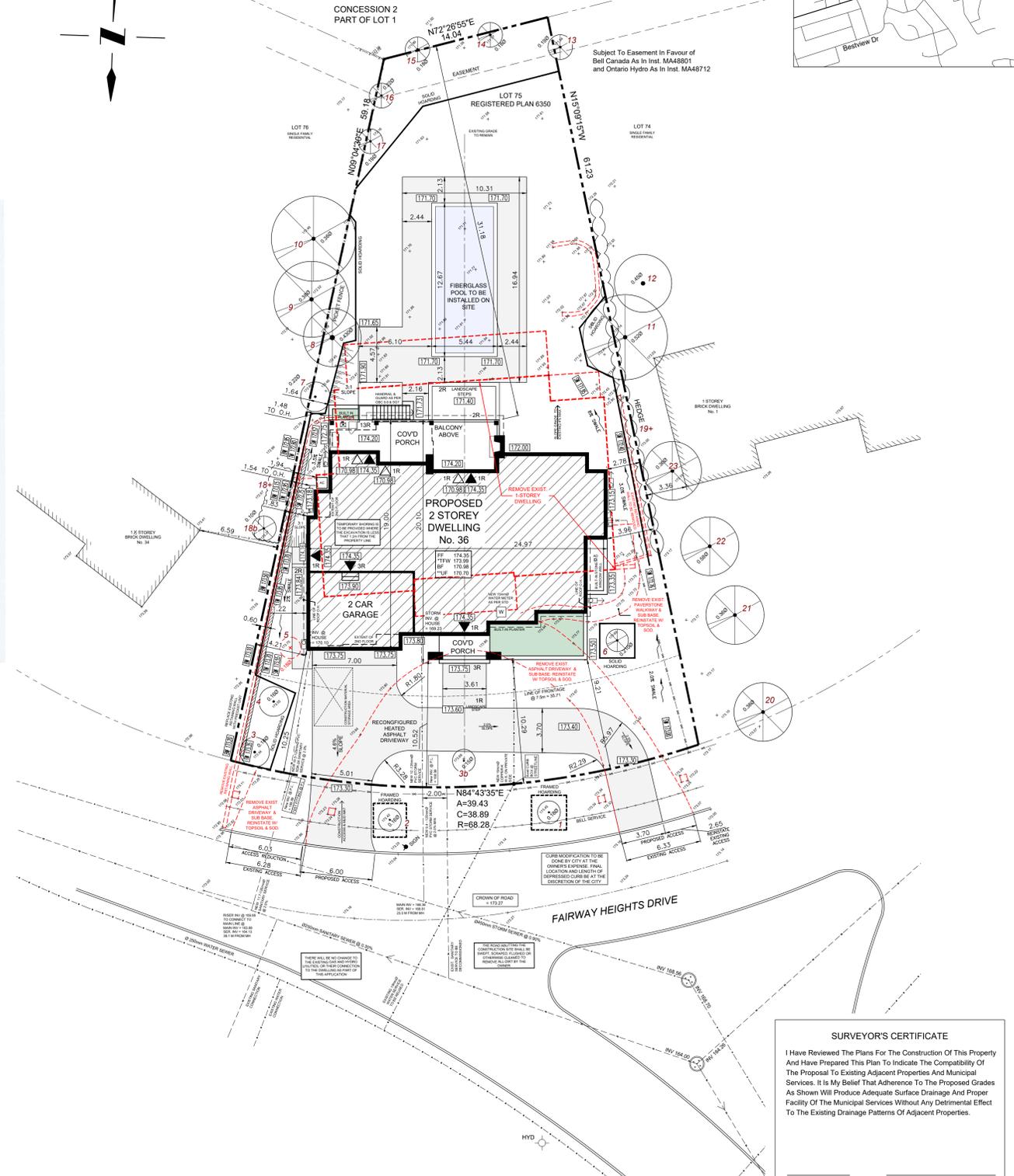
SCALE: NTS

REV: 1

DATE: AUGUST 2012

APPROVED BY: [Signature]

DWG. NO.: MP5



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 The Design Is Exempt Under Division C-3.2.1.1, Of The 2012 ONTARIO Building Code

Peter Giordano [Signature] 25061 BCIN

Registration Information Required Unless The Design Is Exempt Under Division C-3.2.1.1, Of The 2012 ONTARIO Building Code

DAVID W. SMALL DESIGNS INC. 29999 BCIN

Firm Name: BCIN

no.	date	revision / comment
8	Jun 10/20	As Per Zoning Comments
7	Jan 30/20	As R655 Comments
6	Jan 08/20	As R655 Comments
5	Dec 03/19	As R655 Comments
4	Oct 29/19	As R655 Comments
3	Sep 03/19	As Per Lot Grading Coordination
2	Aug 21/19	As Per Architect Coordination
1	July 05/19	Issued To Owner For Building Permit Applic'n

**Project:** Kianian Home  
36 Fairway Heights Drive  
Lot 75  
Registered Plan 6350  
City of Markham,  
Regional Municipality of York

**Drawing:** Site Plan

Scale: 1:200

Date: Jul 2019

Dwn by: EC

Proj. no.: 19-1735

**SP**

**DAVID SMALL DESIGNS .COM**

**SURVEYOR'S CERTIFICATE**

I Have Reviewed The Plans For The Construction Of This Property And Have Prepared This Plan To Indicate The Compatibility Of The Proposal To Existing Adjacent Properties And Municipal Services. It Is My Belief That Adherence To The Proposed Grades As Shown Will Produce Adequate Surface Drainage And Proper Facility Of The Municipal Services Without Any Detrimental Effect To The Existing Drainage Patterns Of Adjacent Properties.

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

CHRIS BERESNIEWICZ  
ONTARIO LAND SURVEYOR



**Schedules**

Wood Lintels / Beams			
B1 2-2x8	B7 2-2x12	B13 1-9.5" LVL	B19 1-14" LVL
B2 3-2x8	B8 3-2x12	B14 2-9.5" LVL	B20 2-14" LVL
B3 4-2x8 Bolted	B9 4-2x12 Bolted	B15 3-9.5" LVL	B21 3-14" LVL
B4 2-2x10	B10 1-7.25" LVL	B16 1-11.88" LVL	B22 1-10" LVL
B5 3-2x10	B11 2-7.25" LVL	B17 2-11.88" LVL	B23 2-10" LVL
B6 4-2x10 Bolted	B12 3-7.25" LVL	B18 3-11.88" LVL	B24 3-10" LVL

Note: where solid (1) piece lumber shown - do not substitute multiple ply.  
 Note: 1) Engineered wood beams to be min. 2.0e or equal and 1-3/4" in width. Nailing pattern see S1.  
 2) 'SDS' = Simpson Strong-Tie Strong-Drive heavy-duty connector screws. Refer to manu. specs. for exact details (see typ. detail screw patterns)

**Columns / Posts**

Columns / Posts			
C1 HSS 3.5"x3.5"x0.25"	- Big. Plate 6"x5.8"x10"	(2) 5/8" Dia. A.B	
C2 HSS 4"x4"x0.312"	- Big. Plate 10"x3.4"x10"	(2) 3/4" Dia. A.B	
C3 HSS 5"x5"x0.375"	- Big. Plate 11"x3.4"x11"	(2) 3/4" Dia. A.B	
C4 HSS 5"x5"x0.375"	- Big. Plate 11"x1"x11"	(2) 3/4" Dia. A.B	

Steel Lintels			
L1 3.5" x 3.5" x 1/4"	L3 5" x 3.5" x 5/16"	L5 6" x 4" x 3/8"	
L2 5" x 3.5" x 1/4"	L4 5" x 3.5" x 3/8"	L6 7" x 4" x 1/2"	

Steel Plates			
WP1 = 6" x 5/8" x 10"	(2) 5/8" Diameter Anchor Bolts		
WP2 = 6" x 7/8" x 14"	(2) 3/4" Diameter Anchor Bolts		
WP3 = 11" x 1" x 11"	(2) 3/4" Diameter Anchor Bolts		

**All Structural Steel to Conform to G40.21-350W**

Concrete Footings			
FCV = Bottom Bas. Each Way	F4 42" x 42" x 16"	Deep c/w 5-15M BEV	
F1 24" x 24" x 12"	F5 48" x 48" x 16"	Deep c/w 5-15M BEV	
F2 30" x 30" x 14"	F6 54" x 54" x 18"	Deep c/w 7-15M BEV	
F3 36" x 36" x 16"	F7 60" x 60" x 18"	Deep c/w 7-15M BEV	
F4 42" x 42" x 18"	F8 66" x 66" x 20"	Deep c/w 9-15M BEV	

**Refer to Sheet S1 for General Structural Notes**

**General Notes:**

- Do not scale drawings
- These plans are to remain the property of the designer and must be returned upon request. These plans must not be used in any other location without the written approval of the designer.
- All work to be in accordance with the Ontario building code and all code references refer to OBC 2012 division 'B'
- Contractor to check all dimensions, specifications, etc. On site and shall be responsible for reporting any discrepancy to the engineer and/or designer.
- Structural engineer to be notified prior to pouring of concrete to inspect rubber septum during construction - engineer will not certify walls or footings/plates unless prior inspection is conducted - it is the responsibility of the contractor to notify the project engineer and make all arrangements.
- All wood framed window openings that exceed 48" wide are to have 2"x6" plates @ bottom of opening (typical) U.N.O.
- Adjustments or changes made to the floor layout roof truss layout, beams, lintels & point loads or required load bearing walls must be identified prior to construction and David W. Small Designs Inc. and project engineer must be notified for further review and approval.
- All shop drawings for paces units to be submitted for field review by site inspector prior to manufacturing and installation.
- 'SDS' = Simpson sluttering strong-drive heavy-duty connector screws. Refer to manu. Specs. For exact details (see S1 for screw patterns)
- Typical wall stud construction
  - Typical exterior walls to be 2x6 sep #2 @ 16" o.c. (up to 13' high)
  - All 14" & 16" high exterior walls to be 2x6 sep #2 @ 12" o.c.
  - Typical interior walls to be 2x6 sep #2 @ 16" o.c. (up to 13' high)
  - All 14" & 16" high interior walls to be 2x6 sep #2 @ 12" o.c.
  - All 10" high interior basement walls to be 2x6 sep #2 @ 16" o.c.
- Where load bearing walls are not finished with drywall or a suitable interior finish, then blocking or strapping shall be fastened to the stud at mid-height as per OBC 9.23.10.2 (2)(3)
- 3/4" subfloor sheathing to be screwed and glued to all TJI joists on all floors
- Typical non load bearing partition
- 2x4 studs @ 16" o.c. c/w double top & single bottom plate provide 1/2" drywall lbs
- Typical bathroom reinforcement
- Stud reinforcement required as per OBC 9.5.2.3 in all bathrooms
- All rigid or spray foam exposed interior insulation to be covered w/ taped and 'trussed' drywall
- Specific location of hydro meter to be established by local utility on exterior of the house
- All electrical panels & components to comply with OBC 9.3.4 & specific requirements of the local utility supplier
- Protection from dampness
- All wood framing members that are not pressure treated & which are supported on concrete. In contact with ground or fill shall be separated from the concrete. By min. 5mm polyethylene or type 's' roofing as per OBC 9.23.2.3.(1) & (2)
- Typical wood posts
- All wood post shown to be 1"x3" U.N.O.
- Floor drains to be located in every mechanical room, lower terrace, window well and laundry room.
- All windows and glass doors less than 24" above finished floor are recommended to be tempered glass.

**General Garage Notes:**

- Garage slab to be 5" concrete slab on 6" clean granular fill 32 mpa - 5-8% air entr. C/w 6"x6"x18" w.r.m. opt. Class C-1
- Remove all top soil from top layer
- Insulate all 'warm' garage walls with min. R22 batt insulation
- Interior garage wall to be 1/2" drywall on gasproofed 2x6 studs @ 16" c/w R22 batt insul'n with 6 mil. Poly vapour barrier covered with 1/2" drywall
- Garage ceiling to be 'gasproofed' ceiling with taped drywall and min. R31 insulation in floors above or 1/2" in walls
- Interior garage door to be weather-stripped gasproof door w/ self-closer
- Garage slab to be sloped to exterior a minimum of 4"
- Drop foundation wall for garage door above

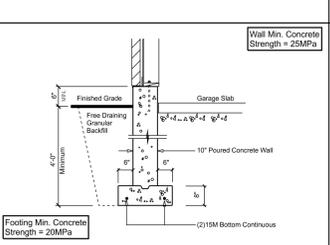
**General Ground Floor Notes:**

- All least one smoke alarm shall be installed on or near the ceiling on each floor and basement levels as per OBC 9.10.19 and also in each sleeping room with a visual signaling component as per 9.10.2 (2)(3/4). Smoke alarms and CO Alarms shall be interconnected. A carbon monoxide alarm shall be installed adjacent to every sleeping area for dwellings with fuel burning appliances, or an attached garage.
- Typical interior door heights
- If ceiling height is 10'-0" or greater than interior doors to be 6'-8" tall
- If ceiling height is 9'-0" - 10'-0" than interior doors to be 7'-6" tall
- If ceiling height is less than 9'-0" than interior doors to be 6'-8" tall
- Typical mechanical ventilation
- A principal dwelling exhaust fan shall be installed and controlled by a centrally located switch identified as such. Every bathroom, powder room and laundry room shall be equipped with a mechanical exhaust fan and vent.
- Typical railing & guard heights
- An interior handrail & guard shall be @ 36" a.f.f. per OBC 9.8 & sb7
- An exterior handrail & guard shall be @ 36" (if less than a max. Of 6'-0" drop) per OBC 9.8 & sb7
- An exterior handrail & guard shall be @ 42" (if greater than 6'-0" drop) a.f.f. per OBC 9.8 & sb7
- Floor drains to be located in every mechanical room, lower terrace, window well and laundry room.

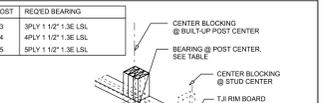
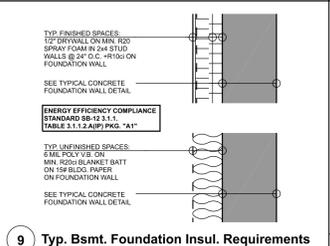
**Project Notes**

- Min. R31 rigid insul'n glued to ults of slab
- Lower terrace steps to have 48" poured conc. Foundation wall w/ 20" wide x 8" deep conc. Footing
- All footns. To extend min. 48" below at lower terrace
- Lower terrace slab to be 3" concrete slab over 5" granular base sloped to drain
- Stair to be built as one-piece unit as drawn and fastened to adjacent wall and floor headers for support
- Front porch slab to be 8" reinforced conc. Slab above 35mpa @ 28 days min. - 5-8% air entr. Class C-1
- All exposed floors to have floor joists above full w/ 2b. Closed cell spray foam insul'n min. R31
- Flat roofs to have 2-ply torched on rubber membrane roof 2% slope to edge on 1/2" plywd. Roof shg. On roof trusses/joists
- Install wood burning fireplace as per obc 9.22.10. And 9.22.1.4. Provide exterior combustion air as per obc 9.22.8.
- Direct vent gas fireplace unit to comply with CANULC-S610 "Factory built fire places" installed with exhaust as per manufacturers specifications
- Interior fireplace to have reinforced concrete slab as per obc 9.22
- Flg. Below fireplace foundation to be 12" deep x 6" projected poured concrete
- For all fireplaces provide min. 2" clearance to all combustible material
- Rear covered Porch Outdoor Sink to have shut-off valve and draining rib inside the heated basement space for annual winter decommissioning
- Provide 15m dowels @ 15" o.c. top bars along slab bearing
- Provide 15m dowels @ 15" o.c. typical along slab bearing

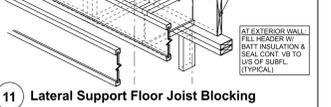
**10" Poured Conc. (Ext.) Foundation Wall**



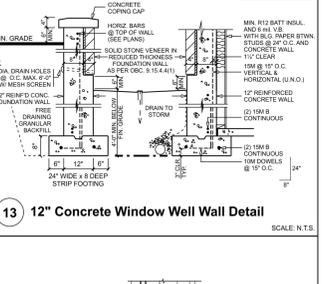
**12" Poured Concrete Foundation Wall @ Rear Walk-Out**



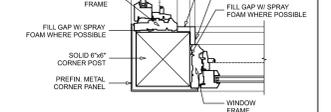
**11 Lateral Support Floor Joist Blocking**



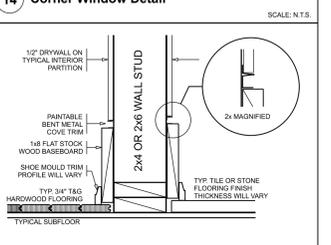
**12" Concrete Window Well Wall Detail**



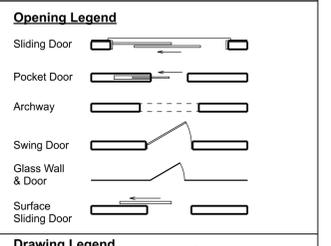
**14 Corner Window Detail**



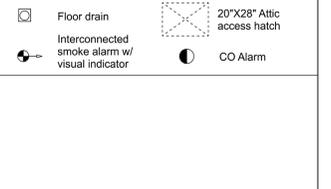
**15 Typical Baseboard Reveal Detail**



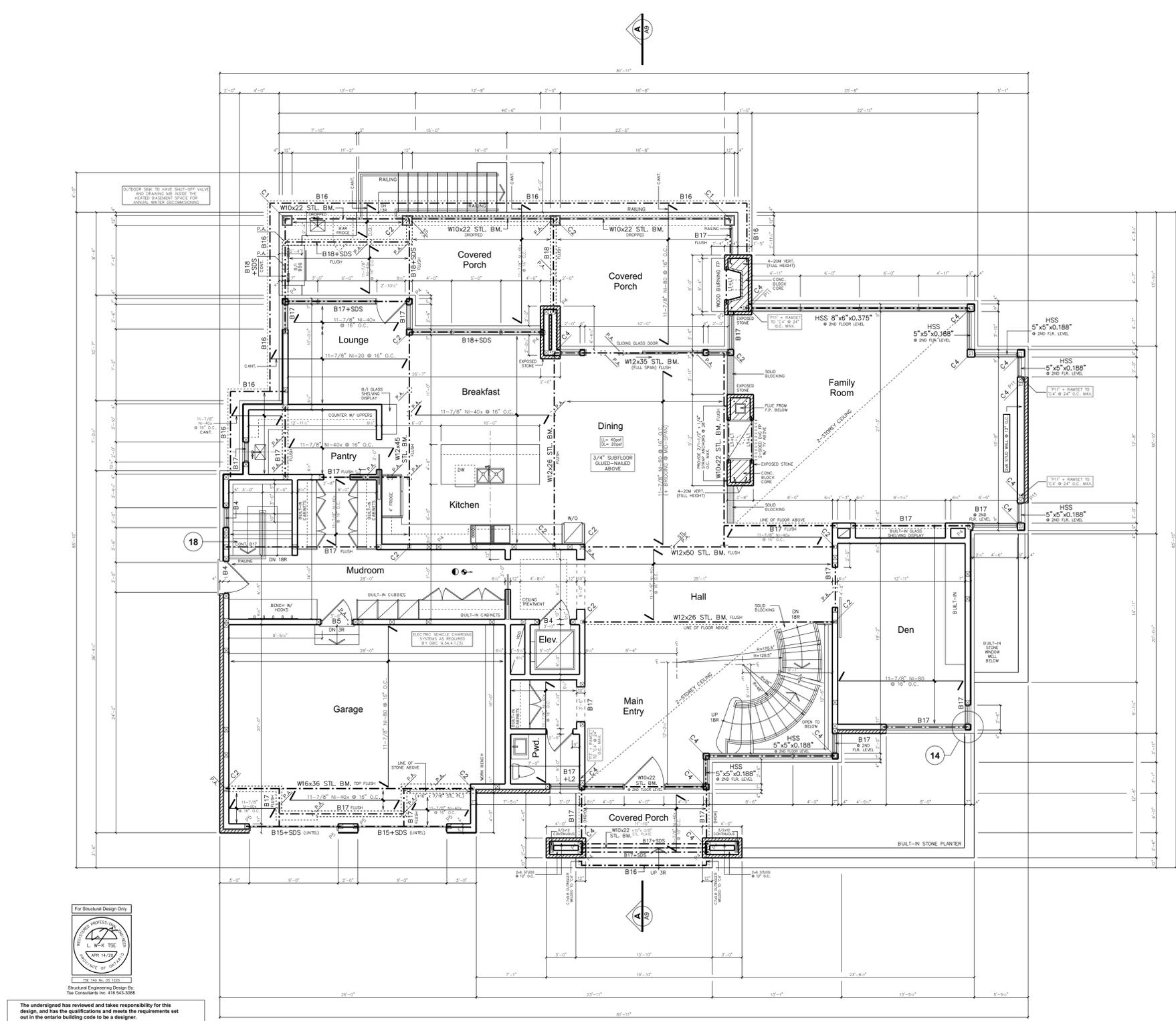
**Opening Legend**



**9 Typ. Bsmt. Foundation Insul. Requirements**



**10" Poured Concrete Foundation Wall @ Rear Walk-Out**



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 the design is exempt under Division C - 3.2.5.1.1 of the 2012 Ontario building code.

Peter Giordano  
 Name: Peter Giordano  
 BCIN: 25661  
 Registration information required unless the design is exempt under Division C - 3.2.5.1.1 of the 2012 Ontario building code.  
 David H. Small Designs Inc.  
 Firm Name: David H. Small Designs Inc.  
 BCIN: 29992

Exterior walls	- R24	Wall area=	658.35 sqm
Bsm't walls	- R20+10ci	Window area=	260.1 sqm
Roof w/ attic	- N/A	** Ratio =	39.50%
Roof w/ attic	- R50	Window/skylight	
Exposed floors	- R50	Eff. =	1.4
Exposed slab	- R10	SB-12.3.1.2 Performance	
		Climate zone 1	
		** house must be 'modelled'	

no.	date	revision / comment
3	Apr 14/20	Engineered Floor Joist Coordination - Alpo
2	Feb 24/20	HVAC Coordination - McCallum Design Inc.
1	July 5/19	Issued To Owner For Building Permit Applic'n

**Project:**  
**The Kianian Home**  
 36 Fairway Heights Drive  
 Lot 75  
 Registered Plan 6350  
 City of Markham  
 Regional Municipality of York

**Drawing:**  
**Ground Floor Plan**  
 Scale: 3/16" = 1'-0"  
 Date: Jul 2019  
 Dwn by: NM  
 Proj. no.: 19-1735



**Schedules**

**Wood Lintels / Beams**

B1 2x26	B2 2x24	B3 1.9-5" LVL	B9 1-14" LVL
B4 2x26	B5 2x24	B6 2.9-5" LVL	B10 2-14" LVL
B7 4x26 Bolted	B8 3x24 Bolted	B9 3.9-5" LVL	B11 3-14" LVL
B4 2x24	B10 1.7-25" LVL	B11 1.88" LVL	B22 1-16" LVL
B5 3x24	B11 2-25" LVL	B12 2-11.88" LVL	B23 2-16" LVL
B6 4x24 Bolted	B12 3-25" LVL	B13 3-11.88" LVL	B24 3-16" LVL

Note: where solid (1) piece lumber shown - do not substitute multiple ply.  
 Note:  
 1) Engineered wood beams to be min. 2.0e or equal and 1/34" in width. Nailing pattern see S1  
 2) 'SDS' = Simpson Strong-Tie Strong-Drive heavy-duty connector screws. Refer to manu. specs. for exact details (see typ. detail screw patterns)

**Columns / Posts**

P2 2x26	P4 4x26	P6 3x24	P8 5x24	P10 6x6	P12 4x26
P3 3x26	P5 5x26	P7 4x24	P9 4x4	P11 3x26	

**Steel Lintels**

L1 3.5" x 3.5" x 1/4"	L3 5" x 3.5" x 5/16"	L5 6" x 4" x 3/8"
L2 3" x 3.5" x 1/4"	L4 5" x 3.5" x 3/8"	L6 7" x 4" x 1/2"

**Steel Plates**

WP1 = 6" x 5/8" x 10"	(2) #8" Diameter Anchor Bolts
WP2 = 6" x 7/8" x 14"	(2) #3/4" Diameter Anchor Bolts
WP3 = 11" x 1" x 11"	(2) #3/4" Diameter Anchor Bolts

**All Structural Steel to Conform to G40.21-350W**

**Concrete Footings**

BEW - Bottom Beam Each Way	F4 42" x 42" x 18" Deep c/w 5-15M BEW
F1 24" x 24" x 12" Deep	F5 48" x 48" x 18" Deep c/w 5-15M BEW
F2 30" x 30" x 14" Deep	F6 54" x 54" x 18" Deep c/w 7-15M BEW
F3 36" x 36" x 16" Deep	F7 60" x 60" x 18" Deep c/w 7-15M BEW
	F8 66" x 66" x 20" Deep c/w 8-15M BEW

Refer to Sheet S1 for General Structural Notes

**General Notes:**

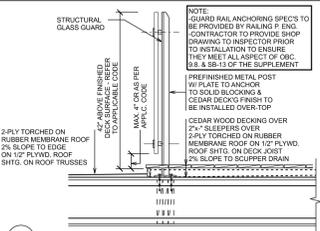
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- All work to be in accordance with the Ontario building code and all code references refer to OBC 2012 Division 'B'
- Contractor to check all dimensions, specifications, etc. On site and shall be responsible for reporting any discrepancy to the engineer and/or designer.
- Structural engineer to be notified prior to pouring of concrete to inspect rebar layout during construction - engineer will not certify walls or footings unless prior inspection is conducted - it is the responsibility of the contractor to notify the project engineer and make all arrangements.
- All wood framed window openings that exceed 48" wide are to have 22"x6" plates @ bottom of opening (typical) U.N.O.
- Adjustments or changes made to the floor layout roof truss layout, beams, lintels & post loads or required load bearing walls must be identified prior to construction and David W. Small Designs Inc. and project engineer must be notified for further review and approval.
- All shop drawings for joists units to be submitted for field review by site inspector prior to manufacturing and installation
- 'SDS' = Simpson Strong-Tie strong-drive heavy-duty connector screws. Refer to manu. specs. For exact details (see S1 for screw patterns)
- Typical wall stud construction
  - Typical exterior walls to be 2x6 sep #2 @ 16" o.c. (up to 13' high)
  - All 14' & 16' high exterior walls to be 2x6 sep #2 @ 12" o.c.
  - Typical interior walls to be 2x6 sep #2 @ 16" o.c. (up to 13' high)
  - All 14' & 16' high interior walls to be 2x6 sep #2 @ 12" o.c.
  - All 10' high interior basement walls to be 2x6 sep #2 @ 16" o.c.
- Where load bearing walls are not finished with drywall or a suitable interior finish, then blocking or strapping shall be fastened to the stud at mid-height as per OBC 9.23.10.2.1(2)
- 3.4" subfloor sheathing to be screwed and glued to all TJI joists on all floors
- Typical non load bearing partition
  - 2x4 studs @ 16" o.c. c/w double top & single bottom plate provide 1/2" drywall b/s
- Typical bathroom reinforcement
  - Stud reinforcement required as per OBC 9.5.2.3 in all bathrooms
- All rigid or spray foam exposed interior insulation to be covered w/ taped and 'mudded' drywall
- Specific location of hydro meter to be established by local utility on exterior of the house
- All electrical panels & components to comply with OBC 9.34 & specific requirements of the local utility supplier
- Protection from dampness
  - All wood framing members that are not pressure treated & which are supported on concrete. In contact with ground or fill shall be separated from the concrete. By min. 5mm polyethylene or type s nail roofing as per OBC 9.23.2.3.1(1) & (2)
- Typical wood posts
  - All wood post shown to be T3" U.N.O.
- Floor drains to be located in every mechanical room, lower terraces, window well and laundry room.
- All windows and glass doors less than 24" above finished floor are recommended to be tempered glass.

**General Second Floor Notes:**

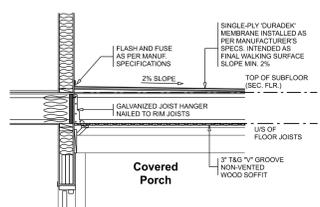
- At least one smoke alarm shall be installed on or near the ceiling on each floor and basement levels as per O.C. 9.10.19 and also in each sleeping room with a visual signaling component as per O.C. 9.10.19.1 (2)(3)(4). Smoke alarms and CO Alarms shall be interconnected. A carbon monoxide alarm shall be installed adjacent to every sleeping area for dwellings with fuel burning appliances, or an attached garage.
- Typical interior door heights
  - if ceiling height is 10'-0" or greater than interior doors to be 8'-0" tall
  - if ceiling height is 9'-0" - 10'-0" than interior doors to be 7'-6" tall
  - if ceiling height is less than 9'-0" than interior doors to be 6'-8" tall
- Typical mechanical ventilation
- Principal dwelling exhaust fan shall be installed and controlled by a centrally located switch as such. Every bathroom, powder room and laundry room shall be equipped with a mechanical exhaust fan and vent.
- Typical railing & guard heights
  - An interior handrail & guard shall be @ 36" a.f.f. per OBC 9.8 & s07
  - An exterior handrail & guard shall be @ 36" (if less than a max. of 6'-0" drop) per OBC 9.8 & s07
  - An exterior handrail & guard shall be @ 42" (if greater than 6'-0" drop) a.f.f. per OBC 9.8 & s07
- Floor drains to be located in every mechanical room, lower terrace, window well and laundry room.

**Project Notes**

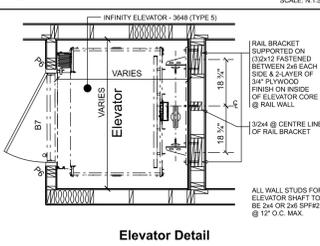
- Min. R31 rigid insul'n glued to u/s of slab
- Lower terrace steps to have 8" poured conc. Foundation wall w/ 20" wide 8" deep conc. Footing
- All frnds. To extend min. 48" below slab at lower terrace
- Lower terrace slab to be 3" concrete slab over 5" granular base sloped to drain
- Stair to be built as one-piece unit as drawn and fastened to adjacent wall and floor headers for support
- Front porch slab to be 8" reinforced conc. Slab above 35mpa @ 28 days min. - 5/8" air ent. Class 1
- All exposed floors to have floor joists above full w/ 2B. Closed cell spray foam insul'n min. R31
- Flat roofs to have 2-ply torched on rubber membrane roof 2% slope to edge on 1/2" plywood roof shig. on roof trusses/joists
- Install wood burning fireplace as per OBC 9.22.10. And 9.22.1.4. Provide exterior combustion air as per OBC 9.22.8.
- Direct vent gas fireplace unit to comply with CANULC-S610-M "Factory built fire places" installed with exhaust as per manufacturers specifications
- Interior fireplace to have reinforced concrete slab as per OBC 9.22.
- Fig. Below fireplace foundation to be 12" deep x 6" projected poured concrete
- For all fireplaces provide min. 2" clearance to all combustible material
- Rear covered Porch Outdoor Sink to have shut-off valve and draining rib inside the heated basement space for annual winter decommissioning
- Provide 15m dowels @ 15" o.c. top bars along slab bearing
- Provide 15m dowels @ 15" o.c. typical along slab bearing



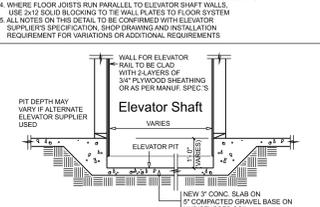
20 Cedar Decking & Glass Guard On Balcony SCALE: N.T.S.



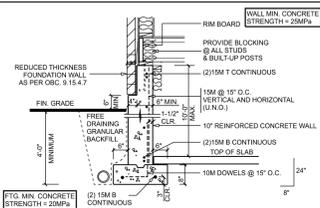
21 Flat Roof to Frame wall connection SCALE: N.T.S.



22 Elevator Detail SCALE: N.T.S.



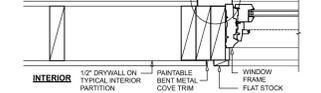
23 Dropped & Thickened Slab @ Elevator Pit SCALE: N.T.S.



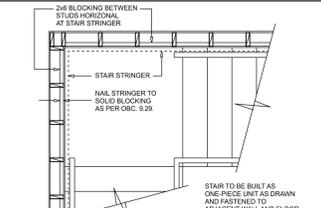
24 Section Thru Typical Flat Roof SCALE: N.T.S.



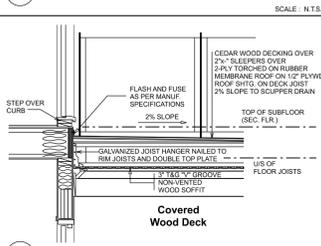
17 Typical Window Frame Reveal Detail SCALE: N.T.S.



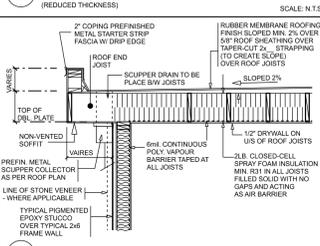
18 Fastening 1-piece stairs to adjacent walls SCALE: N.T.S.



19 Balcony to Frame wall connection SCALE: N.T.S.



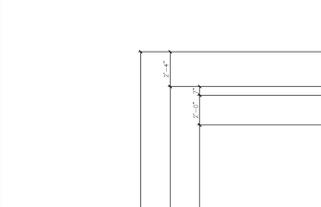
16 Typical Door Frame Reveal Detail SCALE: N.T.S.



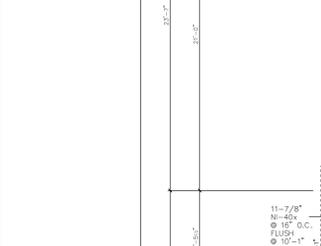
20 Covered Porch SCALE: N.T.S.



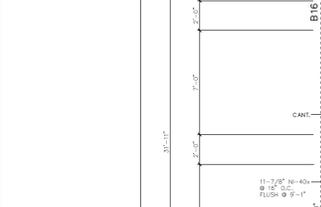
21 Elevator Shaft SCALE: N.T.S.



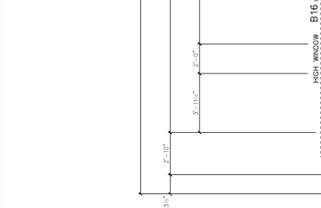
22 Dropped & Thickened Slab @ Elevator Pit SCALE: N.T.S.



23 Section Thru Typical Flat Roof SCALE: N.T.S.



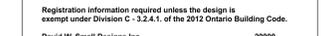
24 Covered Deck SCALE: N.T.S.



25 Typical Window Frame Reveal Detail SCALE: N.T.S.



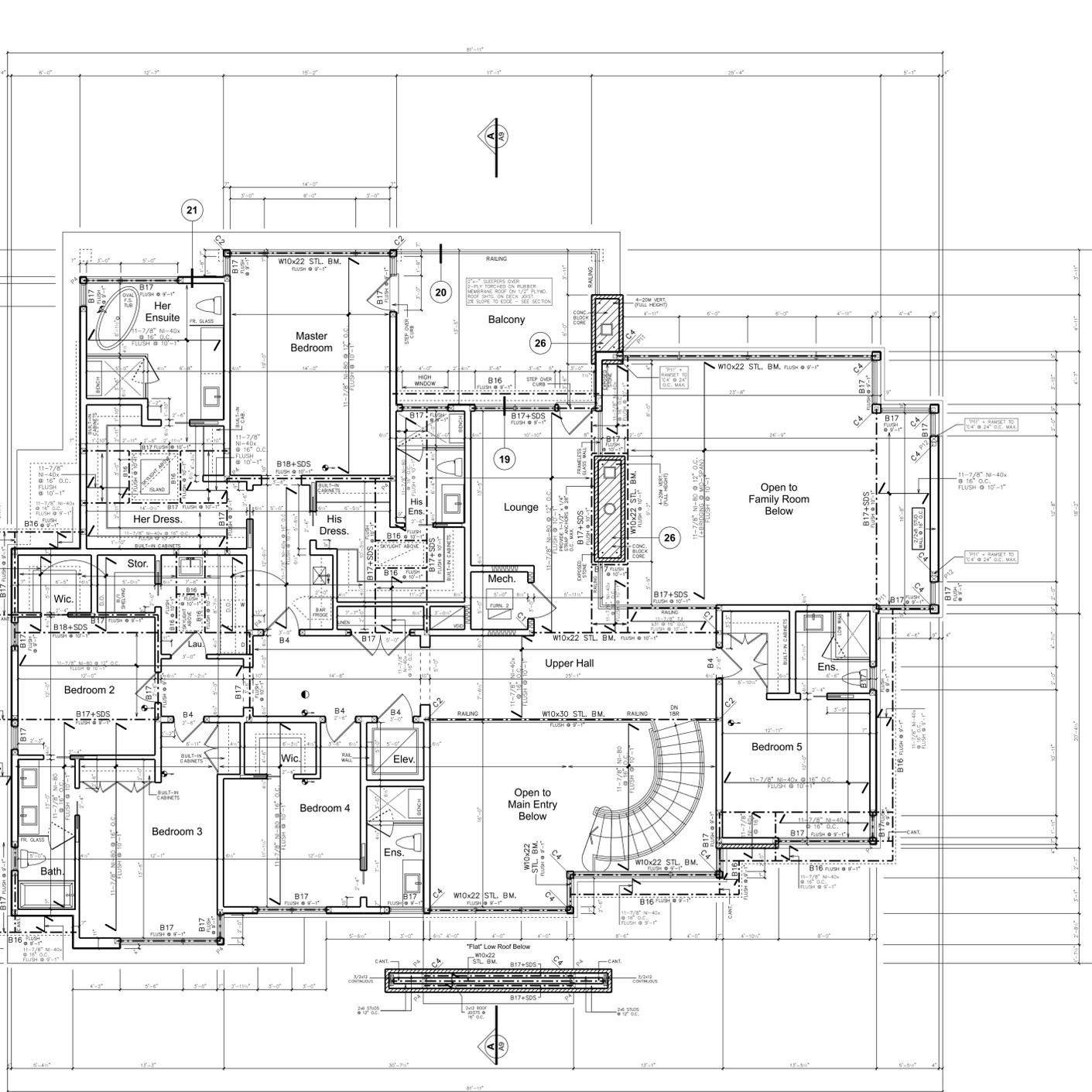
26 Fastening 1-piece stairs to adjacent walls SCALE: N.T.S.



27 Balcony to Frame wall connection SCALE: N.T.S.



28 Typical Door Frame Reveal Detail SCALE: N.T.S.



For Structural Design Only

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 the design is exempt under Division C - 3.2.5.1. of the 2012 Ontario Building Code.

Peter Giordano  
 Name: 25061  
 BCIN

Registration information required unless the design is exempt under Division C - 3.2.5.1. of the 2012 Ontario Building Code.

David W. Small Designs Inc.  
 Firm Name: 29999  
 BCIN

**Opening Legend**

Sliding Door	
Pocket Door	
Archway	
Swing Door	
Glass Wall & Door	
Surface Sliding Door	

**Drawing Legend**

	Joist direction		Post above
	Floor drain		20'x28' Attic access hatch
	Interconnected smoke alarm w/ visual indicator		CO Alarm

Exterior walls	- R24	Wall area=	658.35 sm
Bsm walls	- R20+10c	Window area=	260.1 sm
Roof w/ attic	- N/A	** Ratio =	39.50%
Roof w/o attic	- R50	Window/skylight	Eff. = 1.4
Exposed floors	- R50	SB-12 3.1.2 Performance	
Exposed slab	- R10	Climate zone 1	** house must be 'modelled'

Energy efficiency compliance standard SB-12 3.1.2. requirements T.B.D. by consultant - Target Table 3.1.1.2.A (IP) pkg. 'A1'

3	Apr 14/20	Engineered Roof Joist Coordination - Alpa
2	Feb 24/20	HVAC Coordination - McCallum Design Inc.
1	July 5/19	Issued to Owner for Building Permit Applic'n
no.	date	revision / comment

**Project:**  
 The Kianian Home  
 36 Fairway Heights Drive  
 Lot 75  
 Registered Plan 6350  
 City of Markham  
 Regional Municipality of York

**Drawing:**  
 Second Floor Plan

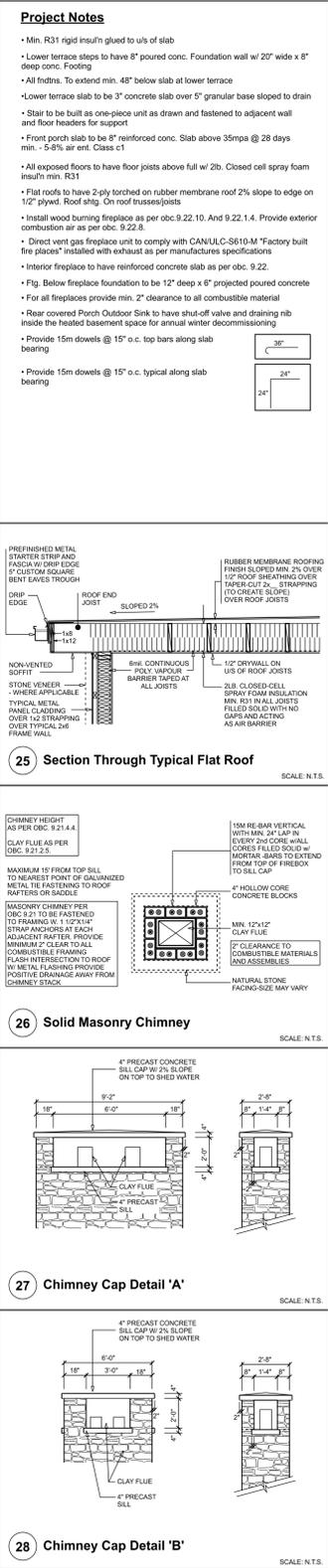
**Scale:** 3/16"=1'-0"  
**Date:** Jul 2019  
**Drawn by:** NM  
**Proj. no.:** 19-1735



**DAVID SMALL DESIGNS**

1440 Hurontario Street, Mississauga, ON L5G 3H4  
 PH 905.271.9100 FX 905.271.9109

Schedules	
<b>Wood Lintels / Beams</b>	
B1 2-2x8 B2 3-2x8 B3 4-2x8 Bolted B4 2-2x10 B5 3-2x10 B6 4-2x10 Bolted	B7 2-2x12 B8 3-2x12 B9 4-2x12 Bolted B10 1-7/25" LVL B11 2-7/25" LVL B12 3-7/25" LVL B13 1-9/5" LVL B14 2-9/5" LVL B15 3-9/5" LVL B16 1-11/88" LVL B17 2-11/88" LVL B18 3-11/88" LVL B19 1-14" LVL B20 2-14" LVL B21 3-14" LVL B22 1-16" LVL B23 2-16" LVL B24 3-16" LVL
Note: where solid (1) piece lumber shown - do not substitute multiple ply.	
Note: 1) Engineered wood beams to be min. 2" De or equal and 1-3/4" in width. Nailing pattern see S1. 2) 'SDS' = Simpson Strong-Tie Strong-Drive heavy-duty connector screws. Refer to manual specs. for exact details (see typ. detail screw patterns)	
<b>Columns / Posts</b>	
P2 2-2x6 P3 3-2x6	P4 4-2x6 P5 5-2x6 P6 3-2x4 P7 4-2x4 P8 5-2x4 P9 4x4 P10 6x6 P11 3-2x6 P12 4-2x8
C1 HSS 3.5"x3.5"x0.25" - Big. Plate 6"x5/8"x10" + (2) 5/8" Dia. A.B C2 HSS 4"x4"x0.312" - Big. Plate 10"x3/4"x10" + (2) 3/4" Dia. A.B C3 HSS 5"x3"x0.375" - Big. Plate 11"x3/4"x11" + (2) 3/4" Dia. A.B C4 HSS 5"x5"x0.375" - Big. Plate 11"x1"x11" + (2) 3/4" Dia. A.B S1 W12x40 Exposed steel postbeam S2 W12x40 Exposed steel postbeam	
<b>Steel Lintels</b>	
L1 3.5" x 3.5" x 1/4" L2 5" x 3.5" x 1/4"	L3 5" x 3.5" x 5/16" L4 5" x 3.5" x 3/8" L5 6" x 4" x 3/8" L6 7" x 4" x 1/2"
<b>Steel Plates</b>	
WP1 = 6"x5/8"x10" + (2) 5/8" Diameter Anchor Bolts WP2 = 6"x7/8"x14" + (2) 3/4" Diameter Anchor Bolts WP3 = 11"x1"x11" + (2) 3/4" Diameter Anchor Bolts	1/2" Anchor bolt
<b>Concrete Footings</b>	
BEW = Bottom Base Each Way F1 24" x 24" x 12" Deep F2 30" x 30" x 14" Deep F3 36" x 36" x 16" Deep	F4 42" x 42" x 16" Deep c/w 5-15M BEW F5 48" x 48" x 16" Deep c/w 5-15M BEW F6 54" x 54" x 18" Deep c/w 7-15M BEW F7 60" x 60" x 18" Deep c/w 7-15M BEW F8 66" x 66" x 20" Deep c/w 9-15M BEW
<ul style="list-style-type: none"> <li>&gt; Strip footings below load bearing walls to have a min. 6" projection minimum 8" in depth - 2' min bottom continuous</li> <li>&gt; All footings to bear on undisturbed soil, rock or engineered fill certified by soils engineer</li> <li>&gt; Min. soil bearing capacity = SLS 120 Kpa (2500 Psf) and to be verified by soils engineer prior to pouring footings</li> </ul>	
Refer to Sheet S1 for General Structural Notes	
<b>General Notes:</b>	
<ol style="list-style-type: none"> <li>Do not scale drawings</li> <li>These plans are to remain the property of the designer and must be returned upon request. These plans must not be used in any other location without the written approval of the designer.</li> <li>All works to be in accordance with the Ontario building code and all code references refer to OBC 2012 division 'B'</li> <li>Contractor to check all dimensions, specifications, etc. On site and shall be responsible for reporting any discrepancy to the engineer and/or designer.</li> <li>Structural engineer to be notified prior to pouring of concrete to inspect rubber septum during construction - engineer will not certify walls or footing/slabs unless prior inspection is conducted - it is the responsibility of the contractor to notify the project engineer and make all arrangements.</li> <li>All wood framed window openings that exceed 48" wide are to have 2"x6" plates @ bottom of opening (typical) U.N.O.</li> <li>Adjustments or changes made to the floor layout roof truss layout, beams, lintels &amp; point loads or required load bearing walls must be identified prior to construction and David W. Small Designs Inc. and project engineer must be notified for further review and approval.</li> <li>All shop drawings for pavers units to be submitted for field review by site inspector prior to manufacturing and installation</li> <li>'SDS' = Simpson sluttering strong-drive heavy-duty connector screws. Refer to manual. Specs. for exact details (see S1 for screw patterns)</li> <li>Typical wall stud construction <ul style="list-style-type: none"> <li>Typical exterior walls to be 2x6 sep #2 @ 16" o.c. (up to 13' high)</li> <li>All 14' &amp; 16' high exterior walls to be 2x6 sep #2 @ 12" o.c.</li> <li>Typical interior walls to be 2x6 sep #2 @ 16" o.c. (up to 13' high)</li> <li>All 14' &amp; 16' high interior walls to be 2x6 sep #2 @ 12" o.c.</li> <li>All 10' high interior basement walls to be 2x6 sep #2 @ 16" o.c.</li> </ul> </li> <li>Where load bearing walls are not finished with drywall or a suitable interior finish, then blocking or strapping shall be fastened to the stud at mid-height as per OBC 9.23.10.2 (1)&amp;(2)</li> <li>3/4" subfloor sheathing to be screwed and glued to all TJI joists on all floors</li> <li>Typical non load bearing partition</li> <li>2x4 studs @ 16" o.c c/w double top &amp; single bottom plate provide 1/2" drywall b/s</li> <li>Typical bathroom reinforcement</li> <li>Stud reinforcement required as per OBC 9.5.2.3 in all bathrooms</li> <li>All rigid or spray foam exposed interior insulation to be covered w/ taped and 'mudded' drywall</li> <li>Specific location of hydro meter to be established by local utility on exterior of the house</li> <li>All electrical panels &amp; components to comply with OBC 9.34 &amp; specific requirements of the local utility supplier</li> <li>Protection from dampness</li> <li>All wood framing members that are not pressure treated &amp; which are supported on concrete. In contact with ground or fill shall be separated from the concrete. By min. 50ml polyethylene or type s roll roofing as per OBC 9.23.2.3.1) &amp; (2)</li> <li>Typical wood posts</li> <li>All wood post shown to be 'P3' U.N.O.</li> <li>Floor drains to be located in every mechanical room, lower terrace, window well and laundry room.</li> <li>All windows and glass doors less than 24" above finished floor are recommended to be tempered glass.</li> </ol>	
<b>General Roof Notes:</b>	
<ol style="list-style-type: none"> <li>Typical flat roof specifications</li> <li>Rubber membrane roofing to meet obc. 9.26.2.1 (g) requirements cgsb 37-3p-52m roofing &amp; waterproofing membrane, sheet applied, elastomeric</li> <li>Provide continuous ice and water shield membrane over sheathing on all roofs less than 4/12</li> <li>Masonry chimney to fasten to framing with 1-1/2"x1/4" strap anchors at each adjacent rafter</li> <li>Fireplace chimney and flue as per OBC 9.22.10. And 9.22.1.4</li> <li>For fireplace/chimney provide min. 2" clearance to all combustible material</li> <li>Provide roof saddle and chimney flashing for contact between chimney masonry and roof strapping or wall finish as per OBC 2012</li> </ol>	



For Structural Design Only

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 the design is exempt under Division C - 3.2.5.1. of the 2012 Ontario Building Code.

Peter Giordano 25061 BCIN  
Signature  
Registration information required unless the design is exempt under Division C - 3.2.4.1. of the 2012 Ontario Building Code.  
David W. Small Designs Inc. 29999 BCIN  
Firm Name

**Roof Notes**

Ss= 1.1 kPa  
Sr= 0.4 kPa

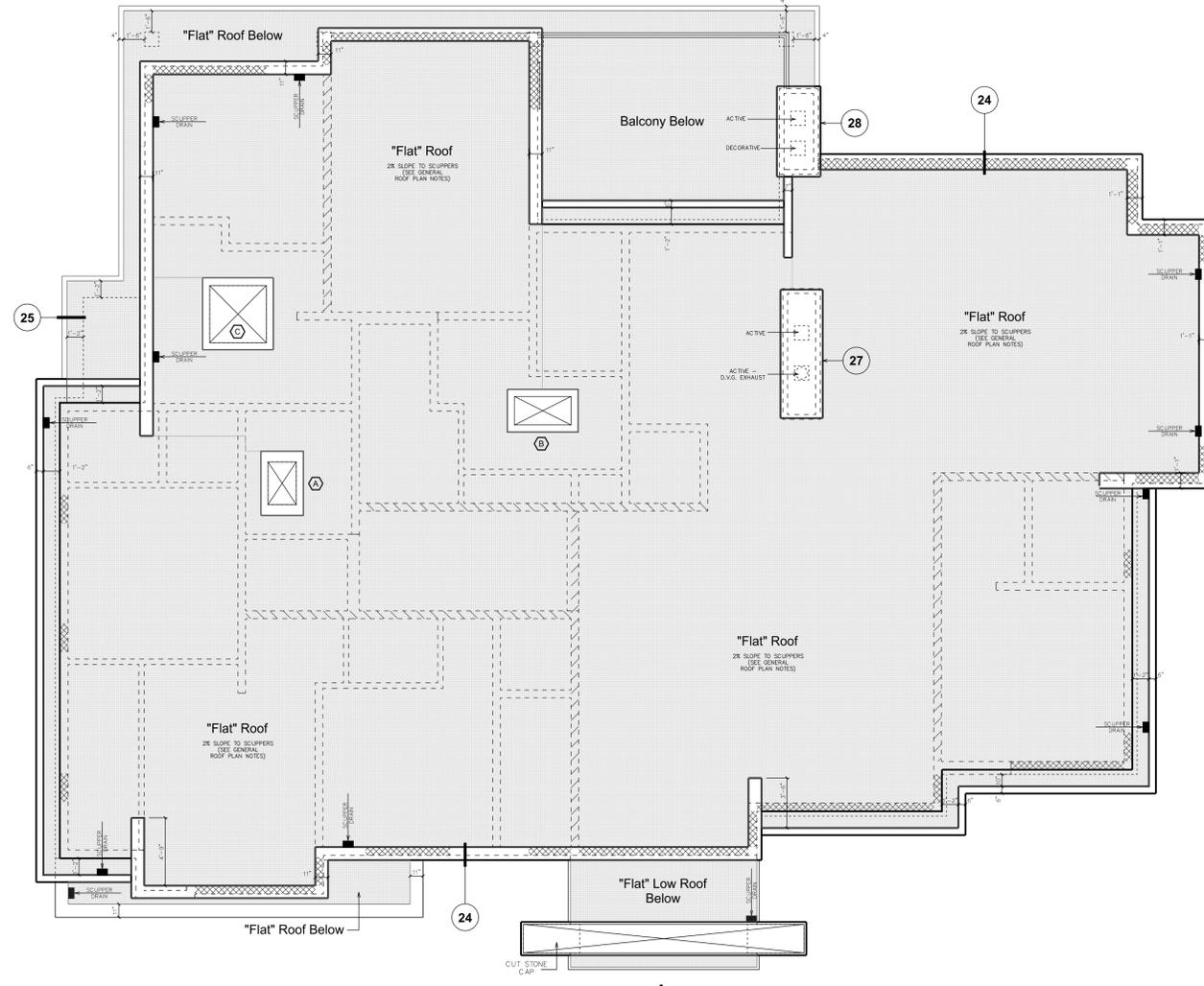
Note: all over-hangs are 4" inset from stone facing on ground floors (typical)  
Note: all upper roof overhangs are to be 1'-2" U.N.O.

- 2' x 3' Skylight installed w/ curb & flashing as required by manufacturer specifications
- 2' x 4' Skylight installed w/ curb & flashing as required by manufacturer specifications
- 4' x 4' Skylight installed w/ curb & flashing as required by manufacturer specifications

= Interior Load-Bearing Walls  
= Flush Lintel  
= Flat Roof - 2% Slope to Edges (See General - Roof Plan Notes)

**Drawing Legend**

- Joist direction
- Floor drain
- Interconnected smoke alarm w/ visual indicator
- Post above
- 20"x28" Attic access hatch
- CO Alarm

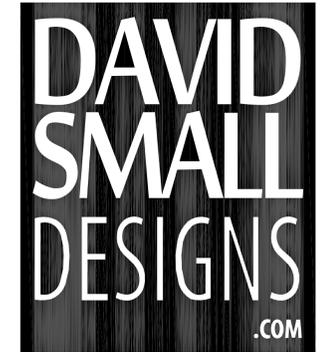


Exterior walls - R24	Wall area= 658.36 sm
Bsmt walls - R20+10ci	Window area= 260.1 sm
Roof w/ attic - N/A	** Ratio = 39.50%
Roof w/o attic - R50	Window/skylight
Exposed floors - R50	Eff. = 1.4
Exposed slab - R10	SB-12.3.1.2 Performance Climate zone 1
	** house must be 'modelled'

Energy efficiency compliance standard SB-12.3.1.2 requirements T.B.D. by consultant - Target Table 3.1.1.2.A (IP) pkg. 'A1'

Project:  
**The Kianian Home**  
36 Fairway Heights Drive  
Lot 75  
Registered Plan 6350  
City Of Markham  
Regional Municipality of York

Drawing:  
**Roof Plan**  
Scale: 3/16"=1'-0"  
Date: Jul 2019  
Dwn by: NM  
Proj. no.: 19-1735



**Elevation Notes**

- ② Prefinished "natural" wood siding to comply with O.N.T. Reg. 332/12 subsection 9.27.6. Lumber-siding and table 9.27.5.4.
- ③ Blocking or furring for the attachment of siding to comply with 9.27.5.2 and 9.27.5.3. and as per manufacturer's specifications.
- ④ All stucco to be "Durock EIFS PU.C.C.S. exterior insulation and finish system CCMC 1206R approved - install as per OBC 9.28. and manufacturer's specifications - note use "Vapour block" by Durock for air/vapour barrier below stucco in place of Tyvek or equivalent product specified for all walls not clad in stucco.
- Note: All over-hangs are 4" inset from stone facing on ground floors (typical)
- Note: Refer to roof plan for all roof slopes and overhang info
- ⑤ Stepped footing per OBC 9.15.3.9.
- ⑥ Glazing to be tempered glass (if operable window provide opening restrictor) - Comply with OBC 9.8.1.1 (5) and (6)
- ⑦ Clay flue as per OBC 9.21.2.5
- ⑧ Chimney Height as per OBC 9.21.4.4
- ⑨ 12" dia. Poured concrete Sono tubes min. 48" below finished grade or to undisturbed soil (Typ.)

**General Notes:**

1. Do not scale drawings
2. These plans are to remain the property of the designer and must be returned upon request. These plans must not be used in any other location without the written approval of the designer.
3. All works to be in accordance with the Ontario building code and all code references refer to OBC 2012 division "B"
4. Contractor to check all dimensions, specifications, etc. On site and shall be responsible for reporting any discrepancy to the engineer and/ or designer.
5. Structural engineer to be notified prior to pouring of concrete to inspect rubber septum during construction - engineer will not certify walls or footings/rafts unless prior inspection is conducted - it is the responsibility of the contractor to notify the project engineer and make all arrangements.
6. All wood framed window openings that exceed 48" wide are to have 2"x6" plates @ bottom of opening (typical) U.N.O.
7. Adjustments or changes made to the floor layout roof truss layout, beams, lentsils & point loads or required load bearing walls must be identified prior to construction and David W. Small Designs Inc. and project engineer must be notified for further review and approval.
8. All shop drawings for pacer units to be submitted for field review by site inspector prior to manufacturing and installation.
9. "SDS" = Simpson slatting strong-drive heavy-duty connector screws. Refer to manf'l. Specs. For exact details (see S1 for screw patterns)
10. Typical wall stud construction
  - Typical exterior walls to be 2x6 sep #2 @ 16" o/c. (up to 13' high)
  - All 14' & 16' high exterior walls to be 2x6 sep #2 @ 12" o/c.
  - Typical interior walls to be 2x6 sep #2 @ 16" o/c. (up to 13' high)
  - All 14' & 16' high interior walls to be 2x6 sep #2 @ 12" o/c.
  - All 10' high interior basement walls to be 2x6 sep #2 @ 16" o/c.
11. Where load bearing walls are not finished with drywall or a suitable interior finish, then blocking or strapping shall be fastened to the stud at mid-height as per OBC 9.23.10.2.(2)(5)
12. 3/4" subfloor sheathing to be screwed and glued to all T/J joists on all floors
13. Typical non load bearing partition
  - 2x4 studs @ 16" o/c c/w double top & single bottom plate provide 1/2" drywall b/s
14. Typical bathroom reinforcement
  - Stud reinforcement required as per OBC 9.5.2.3 in all bathrooms
15. All rigid or spray foam exposed interior insulation to be covered w/ taped and mudded drywall
16. Specific location of hydro meter to be established by local utility on exterior of the house
17. All electrical panels & components to comply with OBC 9.34. & specific requirements of the local utility supplier
18. Protection from dampness
- All wood framing members that are not pressure treated & which are supported on concrete. In contact with ground or fill shall be separated from the concrete. By min. Small polyethylene or type x roll roofing as per OBC 9.23.2.3.(1) & (2)
19. Typical wood posts
  - All wood post shown to be 3" U.N.O.
20. Floor drains to be located in every mechanical room, lower terrace, window well and laundry room.
21. All windows and glass doors less than 24" above finished floor are recommended to be tempered glass.

**Drawing Legend**

**1.0 Materials**

- ① Natural Stone
- ② Pigmented Epoxy Stucco - Light
- ③ Pigmented Epoxy Stucco - Dark
- ④ Smooth Face Cut Stone
- ⑤ 4 Inch Horizontal Wood Siding
- ⑥ Prefinished Aluminium Panel

**2.0 Roofing**

- ① 2-Ply Treated On Rubber Membrane Roof Sloped To 2% To Eaves On 1/2" Plywood Roof Sheathing On Roof Trusses/Joists

**3.0 Trim, Cornice, Moulding, & Gutter Notes**

- ② 4" Cut Stone Sill c/w 2" Projection
- ③ 4" Cut Stone Coping c/w 2" Projection
- ④ 4" Stucco Covered Sill c/w 2" projection
- ⑤ 2" Prefinished Metal Sill Flashing

**4.0 Railing & Post**

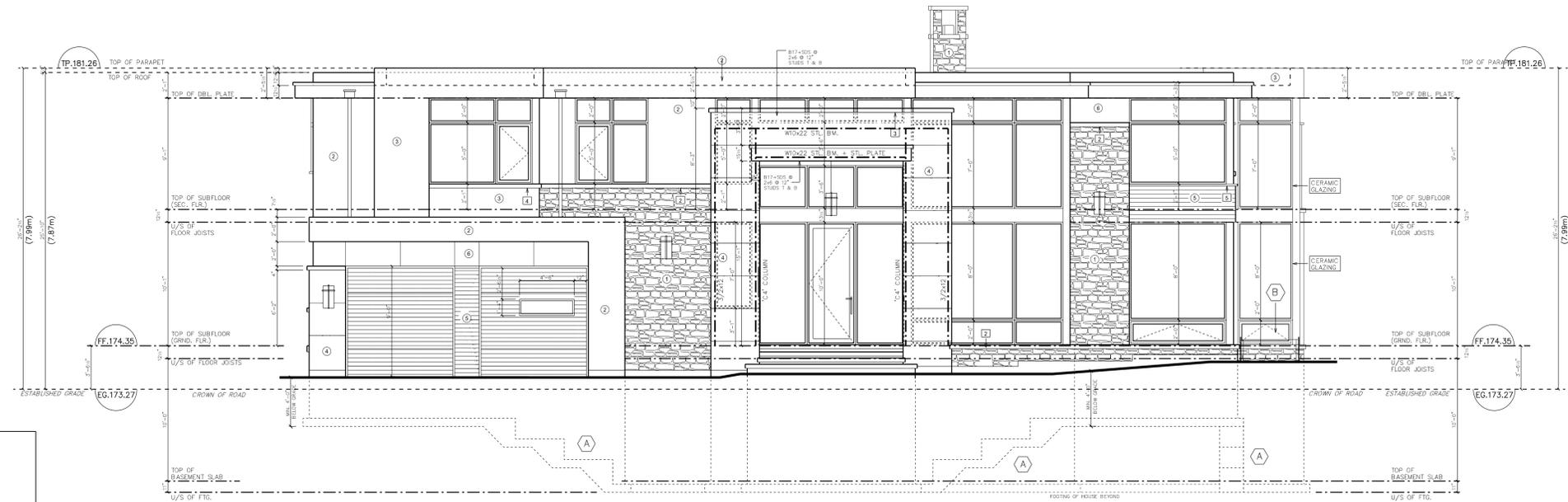
- ① 12"x12" Crezon Clad Post
  - Frameless Tempered Glass Panels Min. 42" Above Fin. Decking - Contractor To Provide Shop Drawing To Inspector Prior To Installation To Ensure They Meet All Aspect Of OBC 9.8. & SB-13 Of The Supplement

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 the design is exempt under Division C - 3.2.5.1. of the 2012 Ontario building code.

Peter Giordano *[Signature]* 25661 BCIN

Registration information required unless the design is exempt under Division C - 3.2.4.1. of the 2012 Ontario Building Code.

David W. Small Designs Inc. 29999 BCIN



Exterior walls	- R24	Wall area=	658.35 sm
Bsmt walls	- R20+10ci	Window area=	260.1 sm
Roof w/ attic	- N/A	** Ratio =	39.50%
Roof w/o attic	- R50	Window/skylight	
Exposed floors	- R50	Eff. =	1.4
Exposed slab	- R10	SB-12 3.1.2 Performance	
		Climate zone 1	
		** house must be 'modelled'	

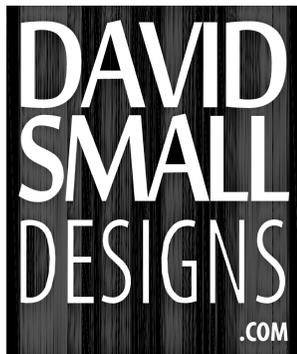
no.	date	revision / comment
3	June 10/20	HVAC Coordination - McCallum Design Inc.
2	Feb 24/20	HVAC Coordination - McCallum Design Inc.
1	July 5/19	Issued To Owner For Building Permit Applic'n

Project:  
**The Kianian Home**  
 36 Fairway Heights Drive  
 Lot 75  
 Registered Plan 6350  
 City of Markham  
 Regional Municipality of York

Drawing:  
**Front Elevation**

Scale: 3/16" = 1'-0"  
 Date: Jul 2019  
 Dwn by: NM  
 Proj. no.: 19-1735

A5



**Elevation Notes**

- 2. Prefinished 'natural' wood siding to comply with ONT. Reg. 33212 subsection 9.27.6. Lumber-siding and table 9.27.5.4.
  - Blocking or furring for the attachment of siding to comply with 9.27.5.2 and 9.27.5.3. and as per manufacturer's specifications
  - 3. All stucco to be 'DuROCK' EIFS P.U.C.C.S. exterior insulation and finish system CCAC 12969R approved. install as per OBC 9.28. and manufacturer's specifications - note use 'Vapour block' by DuROCK for air/vapour barrier below stucco in place of Tyvek or equivalent product specified for all walls not clad in stucco  
 Note: All over-hangs are 4" inset from stone facing on ground floors (typical)  
 Note: Refer to roof plan for all roof slopes and overhang info
  - A. Stepped footing per OBC 9.15.3.9
  - B. Glazing to be tempered glass (if operable window provide opening restriction) - Comply with OBC 9.8.8.1 (5) and (6)
  - C. Clay flue as per OBC 9.21.2.5  
 Chimney Height as per OBC 9.21.4.4
  - D. 12" dia. Poured concrete Sono tubes min. 48" below finished grade or to undisturbed soil (Typ.)
- Unprotected Openings Calculations**
- |                       |                      |
|-----------------------|----------------------|
| Limiting Distance     | 2.78m                |
| Wall Area             | 1132.1 sf (105.2 sm) |
| Opening Area Allowed  | 108.2sf (9.9 sm)     |
| Opening Area Proposed | 99.7 sf (9.2 sm)     |
- Please Note: The Figures For % Openings Allowed Has Been Interpolated Based On O.B.C. Table 9.10.15.4 And Glazed Areas Were Used To Calculate Proposed Openings As Allowed By 9.10.15.4.

**General Notes:**

1. Do not scale drawings
2. These plans are to remain the property of the designer and must be returned upon request. These plans must not be used in any other location without the written approval of the designer.
3. All works to be in accordance with the Ontario building code and all code references refer to OBC 2012 division 'B'
4. Contractor to check all dimensions, specifications, etc. On site and shall be responsible for reporting any discrepancy to the engineer and/ or designer.
5. Structural engineer to be notified prior to pouring of concrete to inspect rubber septum during construction - engineer will not certify walls or footing slabs unless prior inspection is conducted - it is the responsibility of the contractor to notify the project engineer and make all arrangements.
6. All wood framed window openings that exceed 48" wide are to have 2'2"x6" plates @ bottom of opening (typical) U.N.O.
7. Adjustments or changes made to the floor layout roof truss layout, beams, joists & point loads or required load bearing walls must be identified prior to construction and David W. Small Designs Inc. and project engineer must be notified for further review and approval.
8. All shop drawings for pavers units to be submitted for field review by site inspector prior to manufacturing and installation
9. 'SDS' - Simpson slatting strong-drive heavy-duty connector screws. Refer to manual. Specs. For exact details (see S1 for screw patterns)
10. Typical wall stud construction
  - Typical exterior walls to be 2x6 sep #2 @ 16" o.c. (up to 13' high)
  - All 14' & 16' high exterior walls to be 2x6 sep #2 @ 12" o.c.
  - Typical interior walls to be 2x6 sep #2 @ 16" o.c. (up to 13' high)
  - All 14' & 16' high interior walls to be 2x6 sep #2 @ 12" o.c.
  - All 10' high interior basement walls to be 2x6 sep #2 @ 16" o.c.
11. Where load bearing walls are not finished with drywall or a suitable interior finish, then blocking or strapping shall be fastened to the stud at mid-height as per OBC 9.23.10.2 (2)(5)
12. 3/4" subfloor sheathing to be screwed and glued to all TJI joists on all floors
13. Typical non load bearing partition
  - 2x4 studs @ 16" o.c. w/ double top & single bottom plate provide 1/2" drywall b/s
14. Typical bathroom reinforcement
  - Stud reinforcement required as per OBC 9.5.2.3 in all bathrooms
15. All rigid or spray foam exposed interior insulation to be covered w/ taped and 'mudded' drywall
16. Specific location of hydro meter to be established by local utility on exterior of the house
17. All electrical panels & components to comply with OBC 9.34. & specific requirements of the local utility supplier
18. Protection from dampness
  - All wood framing members that are not pressure treated & which are supported on concrete. In contact with ground or fill shall be separated from the concrete. By min. 5mm polyethylene or type s nail roofing as per OBC 9.23.2.3(1) & (2)
19. Typical wood posts
  - All wood post shown to be "P3" U.N.O.
20. Floor drains to be located in every mechanical room, lower terrace, window well and laundry room.
21. All windows and glass doors less than 24" above finished floor are recommended to be tempered glass.

**Drawing Legend**

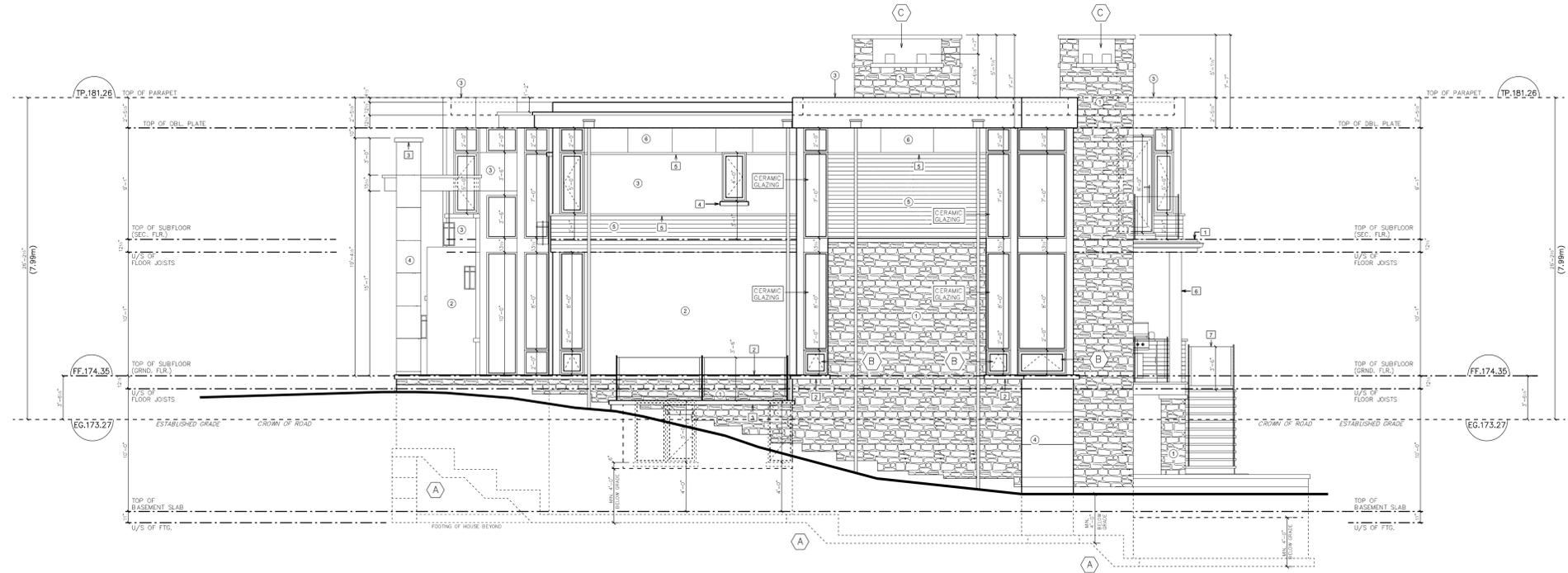
- 1.0 Materials**
- 1 Natural Stone
  - 2 Pigmented Epoxy Stucco - Light
  - 3 Pigmented Epoxy Stucco - Dark
  - 4 Smooth Face Cut Stone
  - 5 4 inch Horizontal Wood Siding
  - 6 Prefinished Aluminium Panel
- 2.0 Roofing**
- 1 2-Ply Torch On Rubber Membrane Roof Sloped To 2% To Eaves On 12" Plywood Roof Sheathing On Roof Trusses/Joists
- 3.0 Trim, Cornice, Moulding, & Gutter Notes**
- 1 4" Cut Stone Sill c/w 2" Projection
  - 2 4" Cut Stone Coping c/w 2" Projection
  - 3 4" Stucco Covered Sill c/w 2" Projection
  - 4 2" Prefinished Metal Sill Flashing
- 4.0 Railing & Post**
- 1 12"x12" Crezon Clad Post
- Frameless Tempered Glass Panels Min. 42" Above Fin. Decking - Contractor To Provide Shop Drawing To Inspector Prior To Installation To Ensure They Meet All Aspect OF OBC: 9.8. & SB-13 OF The Supplement

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 the design is exempt under Division C - 3.2.5.1. of the 2012 Ontario building code.

Peter Giordano 25061  
 Name Signature BCIN

Registration information required unless the design is exempt under Division C - 3.2.4.1. of the 2012 Ontario Building Code.

David W. Small Designs Inc. 29999  
 Firm Name BCIN



Exterior walls	- R24	Wall area=	658.35 sm
Bsm't walls	- R20+10ci	Window area=	260.1 sm
Roof w/ attic	- N/A	** Ratio =	39.50%
Exposed floors	- R50	Window/skylight	
Exposed slab	- R10	Eff. =	1.4
		SB-12 3.1.2 Performance	
		Climate zone 1	
		** house must be 'modelled'	

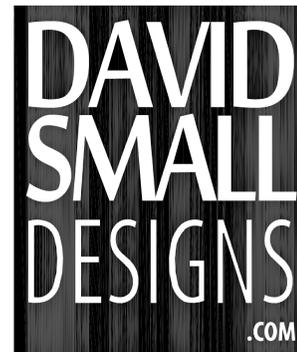
Energy efficiency compliance standard SB-12 3.1.2. requirements T.B.D. by consultant - Target Table 3.1.1.2.A (F) pkg. 'A1'

no.	date	revision / comment
2	Feb 24/20	HVAC Coordination - McCallum Design Inc.
1	July 5/19	Issued To Owner For Building Permit Applic'n

**Project:**  
**The Kianian Home**  
 36 Fairway Heights Drive  
 Lot 75  
 Registered Plan 6350  
 City Of Markham  
 Regional Municipality of York

**Drawing:**  
**Right-Side Elevation**

Scale: 3/16" = 1'-0"  
 Date: Jul 2019  
 Dwn by: NM  
 Proj. no.: 19-1735



**Elevation Notes**

- ① Prefinished 'natural' wood siding to comply with OMT Reg. 332/12 subsection 9.27.6. Lumber-siding and table 9.27.5.4.
- ② Blocking or furring for the attachment of siding to comply with 9.27.5.2 and 9.27.5.3. and as per manufacturer's specifications
- ③ All stucco to be 'DUROCK' EIFS P.U.C.C.S. exterior insulation and finish system CC-MC 1260R approved. install as per OBC 9.28 and manufacturer's specifications -note use 'Vapour block' by DUROCK for vapour barrier below stucco in place of Tyvek or equivalent product specified for all walls not clad in stucco.  
  
Note: All over-hangs are 4" inset from stone facing on ground floors (typical)  
  
Note: Refer to roof plan for all roof slopes and overhang info
- ④ Stepped footing per OBC 9.15.3.9.
- ⑤ Glazing to be tempered glass (if operable window provide opening restrictor) - Comply with OBC 9.8.1.1 (b) and (c)
- ⑥ Clay flue as per OBC 9.21.2.5  
Chimney Height as per OBC 9.21.4.4
- ⑦ 12" dia. Poured concrete Sono tubes min. 48" below finished grade or to undisturbed soil (Typ.)

**General Notes:**

1. Do not scale drawings
  2. These plans are to remain the property of the designer and must be returned upon request. These plans must not be used in any other location without the written approval of the designer.
  3. All works to be in accordance with the Ontario building code and all code references refer to OBC 2012 division 'B'
  4. Contractor to check all dimensions, specifications, etc. On site and shall be responsible for reporting any discrepancy to the engineer and/ or designer.
  5. Structural engineer to be notified prior to pouring of concrete to inspect rubber septum during construction - engineer will not certify walls or footings/slabs unless prior inspection is conducted - it is the responsibility of the contractor to notify the project engineer and make all arrangements.
  6. All wood framed window openings that exceed 48" wide are to have 2"x6" plates @ bottom of opening (typical) U.N.O.
  7. Adjustments or changes made to the floor layout roof truss layout, beams, trusses & post loads or required load bearing walls must be identified prior to construction and David W. Small Designs Inc. and project engineer must be notified for further review and approval.
  8. All shop drawings for piers units to be submitted for field review by site inspector prior to manufacturing and installation
  9. 'SDS' - Simpson slotted strong-drive heavy-duty connector screws. Refer to manual. Specs. For exact details (see S1 for screw patterns)
  10. Typical wall stud construction
    - Typical exterior walls to be 2x6 sep #2 @ 16" o/c. (up to 13' high)
    - All 14' & 16' high exterior walls to be 2x6 sep #2 @ 12" o/c
    - Typical interior walls to be 2x6 sep #2 @ 16" o/c. (up to 13' high)
    - All 14' & 16' high interior walls to be 2x6 sep #2 @ 12" o/c
    - All 10' high interior basement walls to be 2x6 sep #2 @ 16" o/c.
  11. Where load bearing walls are not finished with drywall or a suitable interior finish, then blocking or strapping shall be fastened to the stud at mid-height as per OBC 9.23.10.2.(2)(5)
  12. 3/4" subfloor sheathing to be screwed and glued to all T/J joists on all floors
  13. Typical non load bearing partition  
2x4 studs @ 16" o/c c/w double top & single bottom plate provide 1/2" drywall b/s
  14. Typical bathroom reinforcement  
Stud reinforcement required as per OBC 9.5.2.3 in all bathrooms
  15. All rigid or spray foam exposed interior insulation to be covered w/ taped and 'mudded' drywall
  16. Specific location of hydro meter to be established by local utility on exterior of the house
  17. All electrical panels & components to comply with OBC 9.34. & specific requirements of the local utility supplier
  18. Protection from dampness
- All wood framing members that are not pressure treated & which are supported on concrete. In contact with ground or fill shall be separated from the concrete. By min. 5mm polyethylene or type 'c' roll roofing as per OBC 5.2.3.2.(1) & (2)
19. Typical wood posts  
All wood post shown to be "3" U.N.O.
  20. Floor drains to be located in every mechanical room, lower terrace, window well and laundry room.
  21. All windows and glass doors less than 24" above finished floor are recommended to be tempered glass.

**Drawing Legend**

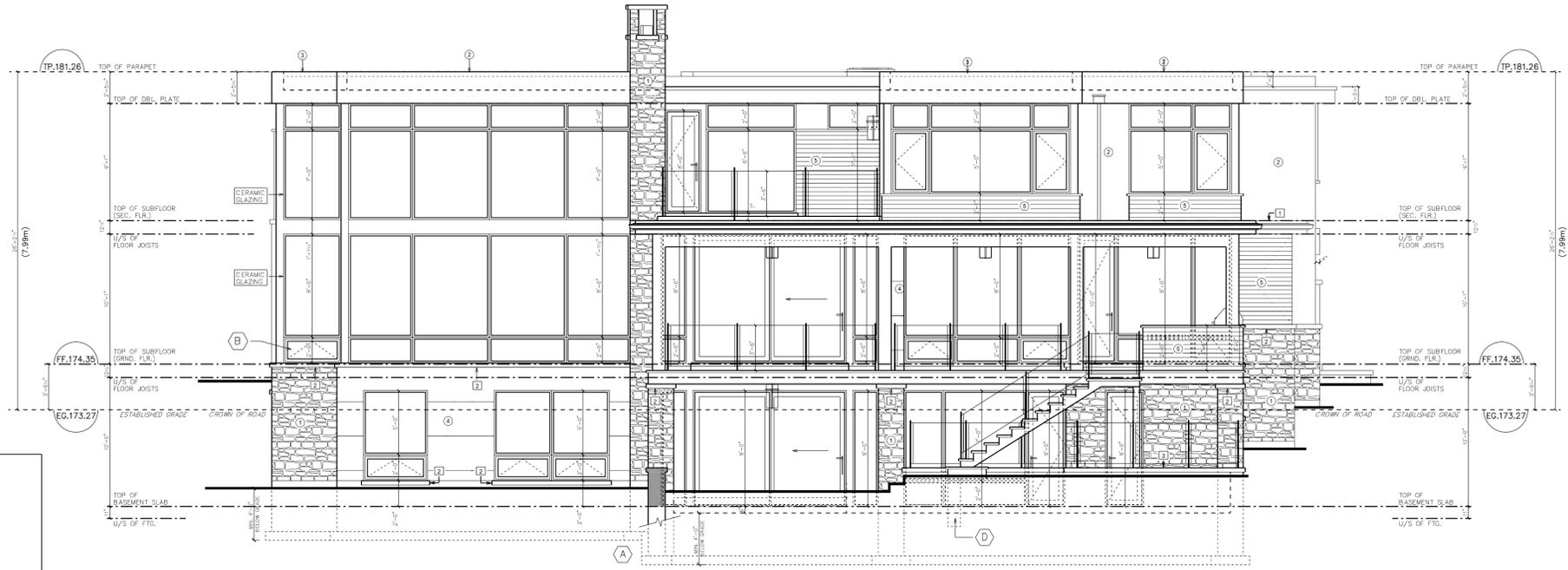
- 1.0 Materials**
- ① Natural Stone
  - ② Pigmented Epoxy Stucco - Light
  - ③ Pigmented Epoxy Stucco - Dark
  - ④ Smooth Face Cut Stone
  - ⑤ 4 inch Horizontal Wood Siding
  - ⑥ Prefinished Aluminium Panel
- 2.0 Roofing**
- ① 2-Ply Torch On Rubber Membrane Roof Sloped To 2% To Eaves On 1/2" Plywood Roof Sheathing On Roof Trusses/Joists
- 3.0 Trim, Cornice, Moulding, & Gutter Notes**
- ① 4" Cut Stone Sill c/w 2" Projection
  - ② 4" Cut Stone Coping c/w 2" Projection
  - ③ 4" Stucco Covered Sill c/w 2" projection
  - ④ 2" Prefinished Metal Sill Flashing
- 4.0 Railing & Post**
- ① 12"x12" Crezon Clad Post
- ① Framed Tempered Glass Panels Min. 42" Above Fin. Decking - Contractor To Provide Shop Drawing To Inspector Prior To Installation To Ensure They Meet All Aspect Of OBC 9.8. & SB-13 Of The Supplement

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 the design is exempt under Division C - 3.2.5.1. of the 2012 Ontario Building Code.

Peter Giordano  
Name 22061  
Signature DCIN

Registration information required unless the design is exempt under Division C - 3.2.4.1. of the 2012 Ontario Building Code.

David W. Small Designs Inc. 29999  
Firm Name BCIN



Exterior walls	- R24	Wall area=	658.35 sm
Bsmt walls	- R20+10ci	Window area=	260.1 sm
Roof w/ attic	- N/A	** Ratio =	39.50%
Roof w/o attic	- R50	Window/skylight	
Exposed floors	- R50	Eff. =	1.4
Exposed slab	- R10	SB-12 3.1.2 Performance	
		Climate zone 1	
		** house must be 'modelled'	

Energy efficiency compliance standard SB-12 3.1.2. requirements T.B.D. by consultant - Target Table 3.1.1.2.A (F) pkg. "A1"

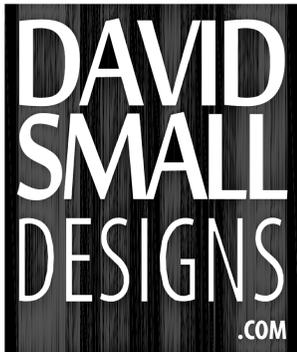
2	Feb 24/20	HVAC Coordination - McCallum Design Inc.
1	July 5/19	Issued To Owner For Building Permit Applic'n
no.	date	revision / comment

Project:  
**The Kianian Home**  
36 Farway Heights Drive  
Lot 75  
Registered Plan 6350  
City Of Markham  
Regional Municipality of York

Drawing:

**Rear Elevation**

Scale: 3/16" = 1'-0"  
Date: Jul 2019  
Dwn by: NM  
Proj. no.: 19-1735



**Elevation Notes**

- ② Prefinished "natural" wood siding to comply with ONT. Reg. 33212 subsection 9.27.6. Lumber-siding and table 9.27.5.4.
  - ③ Blocking or furring for the attachment of siding to comply with 9.27.5.2 and 9.27.5.3. and as per manufacturer's specifications
  - ④ All stucco to be DuROCK EIFS P.U.C.S. exterior insulation and finish system CCMC 12869R approved - install as per OBC 9.23. and manufacturer's specifications - note use "vapour block" by DuROCK for air/vapour barrier below stucco in place of Tyvek or equivalent product specified for all walls not clad in stucco
  - ⑤ Note: All over-hangs are 4" inset from stone facing on ground floors (typical)
  - ⑥ Note: Refer to roof plan for all roof slopes and overhang info
  - ⑦ Stepped footing per OBC 9.15.3.9.
  - ⑧ Glazing to be tempered glass (if operable window provide opening restrictor) - Comply with OBC 9.8.8.1 (5) and (6)
  - ⑨ Clay flue as per OBC 9.21.2.5
  - ⑩ Chimney Height as per OBC 9.21.4.4
  - ⑪ 12" dia. Poured concrete Sono tubes min. 48" below finished grade or to undisturbed soil (Typ.)
- Unprotected Openings Calculations**
- |                       |                      |
|-----------------------|----------------------|
| Limiting Distance     | 1.83m                |
| Wall Area             | 1475.3 sf (137.1 sm) |
| Opening Area Allowed  | 113.0 sf (10.5 sm)   |
| Opening Area Proposed | 85.8 sf (7.9 sm)     |
- Please Note The Figure For % Openings Allowed Has Been Interpolated Based On O.B.C. Table 9.10.15.4 And Glazed Areas Were Used To Calculate Proposed Openings As Allowed By 9.10.15.4.

**General Notes:**

1. Do not scale drawings
2. These plans are to remain the property of the designer and must be returned upon request. These plans must not be used in any other location without the written approval of the designer.
3. All works to be in accordance with the Ontario building code and all code references refer to OBC 2012 division 'B'
4. Contractor to check all dimensions, specifications, etc. On site and shall be responsible for reporting any discrepancy to the engineer and/ or designer.
5. Structural engineer to be notified prior to pouring of concrete to inspect rubber sealum during construction - engineer will not certify walls or footing/rafts unless prior inspection is conducted - it is the responsibility of the contractor to notify the project engineer and make all arrangements.
6. All wood framed window openings that exceed 48" wide are to have 2"x6" plates @ bottom of opening (typical) U.N.O.
7. Adjustments or changes made to the floor layout roof truss layout, beams, levels & point loads or required load bearing walls must be identified prior to construction and David W. Small Designs Inc. and project engineer must be notified for further review and approval.
8. All shop drawings for pavers units to be submitted for field review by site inspector prior to manufacturing and installation
9. SDS = Simpson slatting strong-drive heavy-duty connector screws. Refer to manual. Specs. For exact details (see S1 for screw patterns)
10. Typical wall stud construction
  - Typical exterior walls to be 2x6 sep #2 @ 16" o/c. (up to 13' high)
  - All 14' & 16' high exterior walls to be 2x6 sep #2 @ 12" o/c.
  - Typical interior walls to be 2x6 sep #2 @ 16" o/c. (up to 13' high)
  - All 14' & 16' high interior walls to be 2x6 sep #2 @ 12" o/c.
  - All 10' high interior basement walls to be 2x6 sep #2 @ 16" o/c.
11. Where load bearing walls are not finished with drywall or a suitable interior finish, then blocking or strapping shall be fastened to the stud at mid-height as per OBC 9.23.10.2.(2)(b)
12. 3/4" subfloor sheathing to be screwed and glued to all TJI joists on all floors
13. Typical non load bearing partition
  - 2x4 studs @ 16" o/c c/w double top & single bottom plate provide 1/2" drywall b/s
14. Typical bathroom reinforcement
  - Stud reinforcement required as per OBC 9.5.2.3 in all bathrooms
15. All rigid or spray foam exterior insulation to be covered w/ taped and 'mudded' drywall
16. Specific location of hydro meter to be established by local utility on exterior of the house
17. All electrical panels & components to comply with OBC 9.34. & specific requirements of the local utility supplier
18. Protection from dampness
- All wood framing members that are not pressure treated & which are supported on concrete. In contact with ground or fill shall be separated from the concrete. By min. 5ml polyethylene or type 's' roll roofing as per OBC 9.23.2.3.(1) & (2)
19. Typical wood posts
  - All wood post shown to be "P3" U.N.O.
20. Floor drains to be located in every mechanical room, lower terrace, window well and laundry room.
21. All windows and glass doors less than 24" above finished floor are recommended to be tempered glass.

**Drawing Legend**

- 1.0 Materials**
- ① Natural Stone
  - ② Pigmented Epoxy Stucco - Light
  - ③ Pigmented Epoxy Stucco - Dark
  - ④ Smooth Face Cut Stone
  - ⑤ 4 Inch Horizontal Wood Siding
  - ⑥ Prefinished Aluminium Panel
- 2.0 Roofing**
- ① 2-Ply Touched On Rubber Membrane Roof Sloped To 2% To Eaves On 1 1/2" Plywood Roof Sheathing On Roof Trusses/Joists
- 3.0 Trim, Cornice, Moulding, & Gutter Notes**
- ① 4" Cut Stone Sill c/w 2" Projection
  - ② 4" Cut Stone Coping c/w 2" Projection
  - ③ 4" Stucco Covered Sill c/w 2" projection
  - ④ 2" Prefinished Metal Sill Flashing
- 4.0 Railing & Post**
- ① 12"x12" Crezon Clad Post

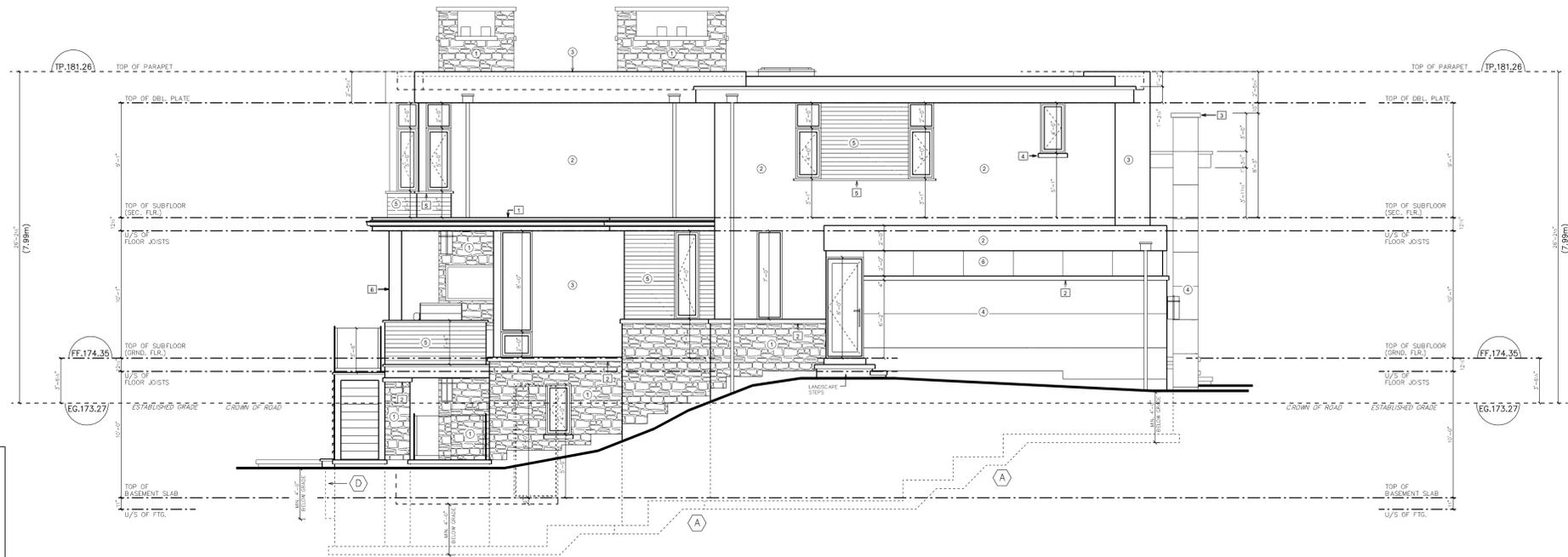
Frameless Tempered Glass Panels Min. 42" Above Fin. Decking - Contractor To Provide Shop Drawing To Inspector Prior To Installation To Ensure They Meet All Aspects Of OBC 9.8. & S9-13 Of The Supplement

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 the design is exempt under Division C - 3.2.5.1. of the 2012 Ontario building code.

Peter Giordano 29981  
Name Signature BCIN

Registration information required unless the design is exempt under Division C - 3.2.4.1. of the 2012 Ontario Building Code.

David W. Small Designs Inc. 29999  
Firm Name BCIN



Exterior walls	- R24	Wall area=	658.35 sm
Bsmt walls	- R20+10c	Window area=	260.1 sm
Roof w/ attic	- N/A	** Ratio =	39.50%
Roof w/o attic	- R50	Window/skylight	
Exposed floors	- R50	Eff. =	1.4
Exposed slab	- R10	SB-12 3.1.2 Performance	
		Climate zone	1
		** house must be 'modelled'	

Energy efficiency compliance standard SB-12 3.1.2. requirements T.B.D. by consultant - Target Table 3.1.1.2.A (IF) pkg. "A1"

no.	date	revision / comment
2	Feb 24/20	HVAC Coordination - McCallum Design Inc.
1	July 5/19	Issued To Owner For Building Permit Applic'n

**Project:**  
**The Kianian Home**  
 36 Fairway Heights Drive  
 Lot 75  
 Registered Plan 6350  
 City Of Markham  
 Regional Municipality of York

**Drawing:**  
**Left-Side Elevation**

Scale: 3/16"=1'-0"  
 Date: Jul 2019  
 Dwn by: NM  
 Proj no.: 19-1735

