Application No: A. Project Information Building number, street name 29 Yates Street Municipality St. Catharines B. Prescriptive Compliance SB-12 Prescriptive (input design p C. Project Design Conditions Climatic Zone (SB-1):	Postard		Model/C	thority ertification Number n number / other descrip	Unit number	Lot/Con		
A. Project Information Building number, street name 29 Yates Stree Municipality St. Catharines B. Prescriptive Compliance SB-12 Prescriptive (input design p C. Project Design Conditions	Postard				Unit number	Lot/Con		
Building number, street name 29 Yates Street Municipality St. Catharines B. Prescriptive Compliance <i>SB-12 Prescriptive (input design p</i> C. Project Design Conditions	Postard		Reg. Pla	n number / other descrip	Unit number	Lot/Con		
Building number, street name 29 Yates Street Municipality St. Catharines B. Prescriptive Compliance <i>SB-12 Prescriptive (input design p</i> C. Project Design Conditions	Postard		Reg. Pla	n number / other descrip	Unit number	Lot/Con		
Municipality St. Catharines B. Prescriptive Compliance SB-12 Prescriptive (input design p C. Project Design Conditions	Postard		Reg. Pla	n number / other descrip				
B. Prescriptive Compliance SB-12 Prescriptive (input design p C. Project Design Conditions	-	huilding and a		in nambol / other aboutp	tion			
SB-12 Prescriptive (input design p C. Project Design Conditions	-	huilding oodo o						
SB-12 Prescriptive (input design p C. Project Design Conditions	-	bullaina coae c	ompliance	ackage being empl	oved in this house (desianl		
C. Project Design Conditions		_			e: A1			
C. Project Design Conditions		ackage: <u>0.</u>	1.1.2.7		e: <u>///</u>			
Cumptio Zono (SR 1):		uipment Effi	cioney	Space Heating I				
■ Zone 1 (< 5000 degree days)	■ ≥ 92% AF		ciency		□ Propane	□ Solid F	uel	
□ Zone 2 (≥ 5000 degree days)	□ ≥ 84% <					□ Earth E		
Ratio of Windows, Skylights & Glass	(W, S & G) te	o Wall Area		Other Building				
$A_{22} = a_1^2 - a_2^2 - a_3^2 - 6104 - 79 a_2^2$				□ Log/Post&Bear			Basement	
Area of walls =m² or <u>6104.79</u> ft²	W, S & G	_{6 % =} <u>17.4</u>		 Slab-on-ground Air Conditionin 				
	Utilize window	averaging:	res ∎No	□ Air Sourced He	0			
Area of W, S & G =m ² or <u>1063.5</u> ft ²		areraging: E		Ground Source	ed Heat Pump (G	SHP)		
 Airtightness substitution(s) Table 3 Airtightness test required 	.1.1.4.B Red	quired:		Permit	ted Substitution:			
Refer to Design Guide Attached) Table 3	.1.1.4.C Re	quired:		Permit	tted Substitution:			
		quired:			ted Substitution:			
Duilding Organization	IVIINIMUM R	SI / R values			4	Eff: - 1	Detinar	
Building Component	or Maximu	m U-Value ⁽¹⁾		Building Comp	onent	Efficiency	Ratings	
Building Component Thermal Insulation	or Maximu Nominal	m U-Value⁽¹⁾ Effective		Building Comp	-		Ratings	<
	or Maximu	m U-Value ⁽¹⁾	Window	• •	vide U-Value ⁽¹⁾ or ER		Ratings	<
Thermal Insulation	or Maximu Nominal	m U-Value ⁽¹⁾	Windov Windov	ws & Doors Prov	vide U-Value ⁽¹⁾ or EF Doors	rating	Ratings	<
Thermal Insulation Ceiling with Attic Space	or Maximu Nominal 60	m U-Value ⁽¹⁾	Windov Windov	vs & Doors Prov /s/Sliding Glass ts/Glazed Roofs	vide U-Value ⁽¹⁾ or EF Doors	t rating	Ratings	
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space	or Maximu Nominal 60 31	m U-Value ⁽¹⁾	Window Window Skyligh Mechae	vs & Doors Prov /s/Sliding Glass ts/Glazed Roofs	vide U-Value ⁽¹⁾ or EF Doors	t rating	Ratings	
Thermal InsulationCeiling with Attic SpaceCeiling without Attic SpaceExposed Floor	or Maximu Nominal 60 31 31	m U-Value ⁽¹⁾	Window Window Skyligh Mechae Heating	vs & Doors Prov /s/Sliding Glass ts/Glazed Roofs hicals	<i>r</i> ide U-Value ⁽¹⁾ or ER Doors	a rating .28 n/a	Ratings	
Thermal InsulationCeiling with Attic SpaceCeiling without Attic SpaceExposed FloorWalls Above Grade	or Maximu Nominal 60 31 31 22	m U-Value ⁽¹⁾	Windov Windov Skyligh Mechai Heating HRV Ef	vs & Doors Prov /s/Sliding Glass ts/Glazed Roofs hicals Equip.(AFUE)	<i>r</i> ide U-Value ⁽¹⁾ or ER Doors	rating .28 n/a 96%	Ratings	
Thermal InsulationCeiling with Attic SpaceCeiling without Attic SpaceExposed FloorWalls Above GradeBasement Walls	or Maximu Nominal 60 31 31 22	m U-Value ⁽¹⁾	Window Window Skyligh Mechae Heating HRV Ef DHW H	vs & Doors Prov /s/Sliding Glass ts/Glazed Roofs nicals Equip.(AFUE) ficiency (SRE% at	<i>v</i> ide U-Value ⁽¹⁾ or ER Doors : 0° C)	e rating .28 n/a 96% n/a .80	Ratings	
Thermal InsulationCeiling with Attic SpaceCeiling without Attic SpaceExposed FloorWalls Above GradeBasement WallsSlab (all >600mm below grade)	or Maximu Nominal 60 31 31 22 20ci -	m U-Value ⁽¹⁾	Windov Windov Skyligh Mechaa Heating HRV Ef DHW H	vs & Doors Prov vs/Sliding Glass ts/Glazed Roofs nicals Equip.(AFUE) ficiency (SRE% at eater (EF)	<i>v</i> ide U-Value ⁽¹⁾ or ER Doors : 0° C) 2% efficiency))	a rating .28 n/a 96% n/a .80	howers <u>3</u>	
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade Basement Walls Slab (all >600mm below grade) Slab (edge only ≤600mm below grade)	or Maximu Nominal 60 31 31 22 20ci - 10 10	m U-Value ⁽¹⁾ Effective	Windov Windov Skyligh Mechaa Heating HRV Ef DHW H	vs & Doors Prov /s/Sliding Glass ts/Glazed Roofs nicals Equip.(AFUE) ficiency (SRE% at eater (EF) (CSA B55.1 (min. 4)	<i>v</i> ide U-Value ⁽¹⁾ or ER Doors : 0° C) 2% efficiency))	a rating .28 n/a 96% n/a .80 yes # S	howers <u>3</u>	
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade Basement Walls Slab (all >600mm below grade) Slab (edge only ≤600mm below grade) Slab (all ≤600mm below grade, or heated)	or Maximu Nominal 60 31 31 22 20ci - 10 10 0 or Btu/(h-ft ² -F	m U-Value ⁽¹⁾ Effective	Windov Windov Skyligh Mechai Heating HRV Ef DHW H DWHR Combin	vs & Doors Prov /s/Sliding Glass ts/Glazed Roofs nicals Equip.(AFUE) ficiency (SRE% at eater (EF) (CSA B55.1 (min. 4 ed Heating Syste	<i>v</i> ide U-Value ⁽¹⁾ or ER Doors : 0° C) 2% efficiency))	a rating .28 n/a 96% n/a .80 yes # S yes see mech	howers <u>3</u>	
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade Basement Walls Slab (all >600mm below grade) Slab (edge only ≤600mm below grade) Slab (all ≤600mm below grade, or heated) (1) U value to be provided in either W/(m²-K)	or Maximu Nominal 60 31 31 22 20ci - 10 10 0 or Btu/(h-ft ² -F if applicable, o	m U-Value ⁽¹⁾ Effective	Windov Windov Skyligh Mechai Heating HRV Ef DHW H DWHR Combin	vs & Doors Prov vs/Sliding Glass ts/Glazed Roofs hicals Equip.(AFUE) ficiency (SRE% at eater (EF) (CSA B55.1 (min. 4) ed Heating System nation herein to sub	vide U-Value ⁽¹⁾ or ER Doors : 0° C) 2% efficiency)) em	a rating .28 n/a 96% n/a .80 yes # S yes see mech	howers <u>3</u>	
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade Basement Walls Slab (all >600mm below grade) Slab (edge only ≤600mm below grade) Slab (edge only ≤600mm below grade) (1) U value to be provided in either W/(m²•K) E. Designer(s) [name(s) & BCIN(s),	or Maximu Nominal 60 31 31 22 20ci - 10 10 0 or Btu/(h-ft ² -F if applicable, o	m U-Value ⁽¹⁾ Effective	Windov Windov Skyligh Mechai Heating HRV Ef DHW H DWHR Combin	vs & Doors Prov vs/Sliding Glass ts/Glazed Roofs hicals Equip.(AFUE) ficiency (SRE% at eater (EF) (CSA B55.1 (min. 4) ed Heating System nation herein to sub	vide U-Value ⁽¹⁾ or ER Doors : 0° C) 2% efficiency)) em	rating .28 n/a 96% n/a .80 yes # S yes see mech n meets the build	howers <u>3</u> h'I dwgs	
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Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade Basement Walls Slab (all >600mm below grade) Slab (edge only <600mm below grade)	or Maximu Nominal 60 31 31 22 20ci - 10 10 0 or Btu/(h•ft²•F if applicable, o	m U-Value ⁽¹⁾ Effective	Windov Windov Skyligh Mechai Heating HRV Ef DHW H DWHR Combin	vs & Doors Prov vs/Sliding Glass ts/Glazed Roofs nicals Equip.(AFUE) ficiency (SRE% at eater (EF) (CSA B55.1 (min. 4) ed Heating Syste nation herein to sub ity for the design wo	vide U-Value ⁽¹⁾ or ER Doors : 0° C) 2% efficiency)) em stantiate that desig	a rating .28 n/a 96% n/a .80 yes # S yes see mech n meets the build Digitally sig Hellwig	howers <u>3</u> h'I dwgs	
Thermal Insulation Ceiling with Attic Space	or Maximu Nominal 60	m U-Value ⁽¹⁾	Windov Windov	vs & Doors Prov vs/Sliding Glass	vide U-Value ⁽¹⁾ or EF Doors	t rating	Ratings	

ENERGY EFFICIENCY DESIGN SUMMAERY

NOTE: REFER TO MECHANICAL ENGINEERING DRAWINGS FOR ENVIRONMENTAL CONDITIONING OF THE EXISTING BUILDING, THIS SUMMARY SHALL BE USED TO OBTAIN INSULATION R VALUES

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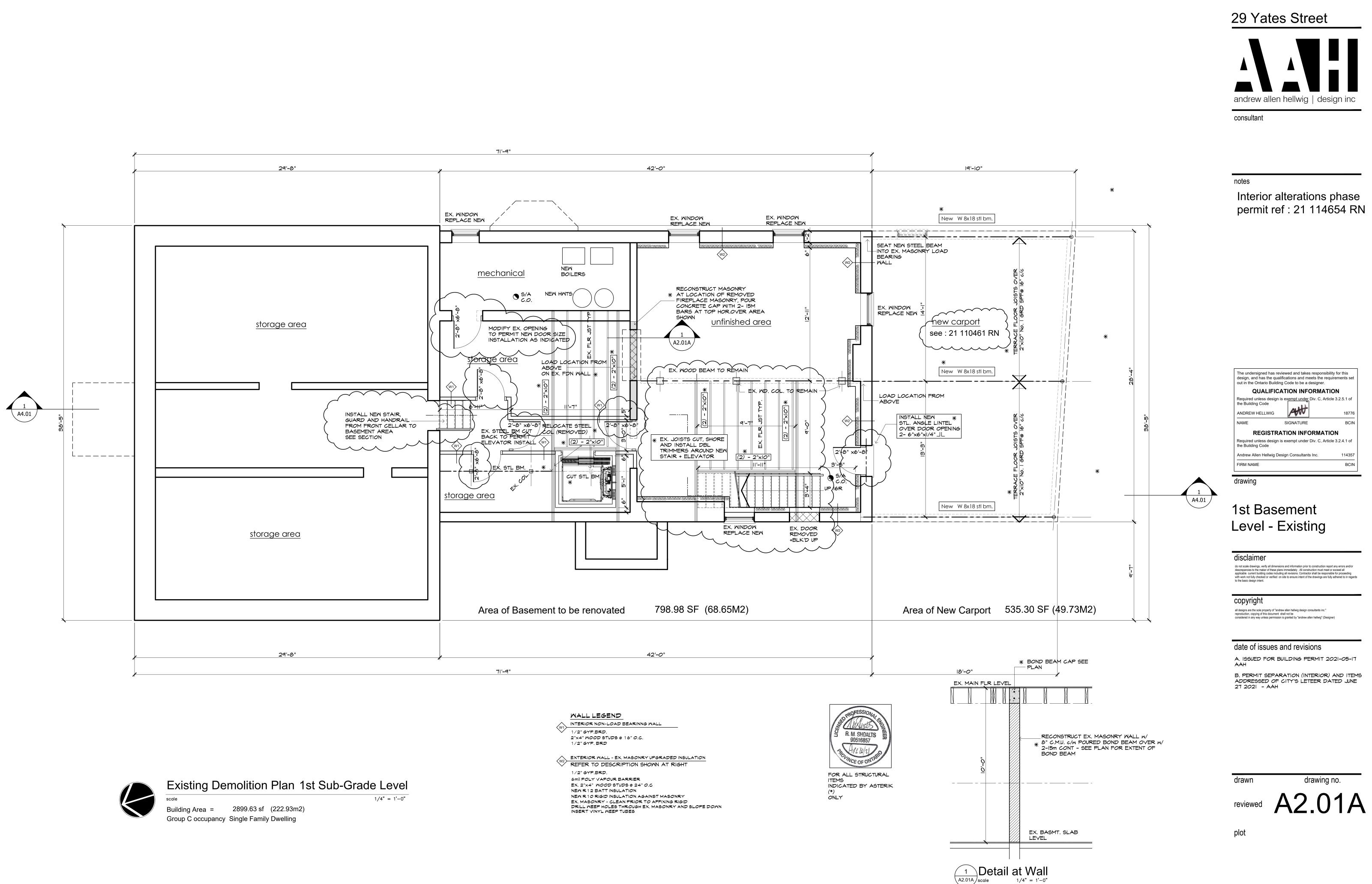
AS CLOSE AS POSSIBLE DUE TO EXISTING BUILDING CONDITIONS AND ASSEMBLIES.



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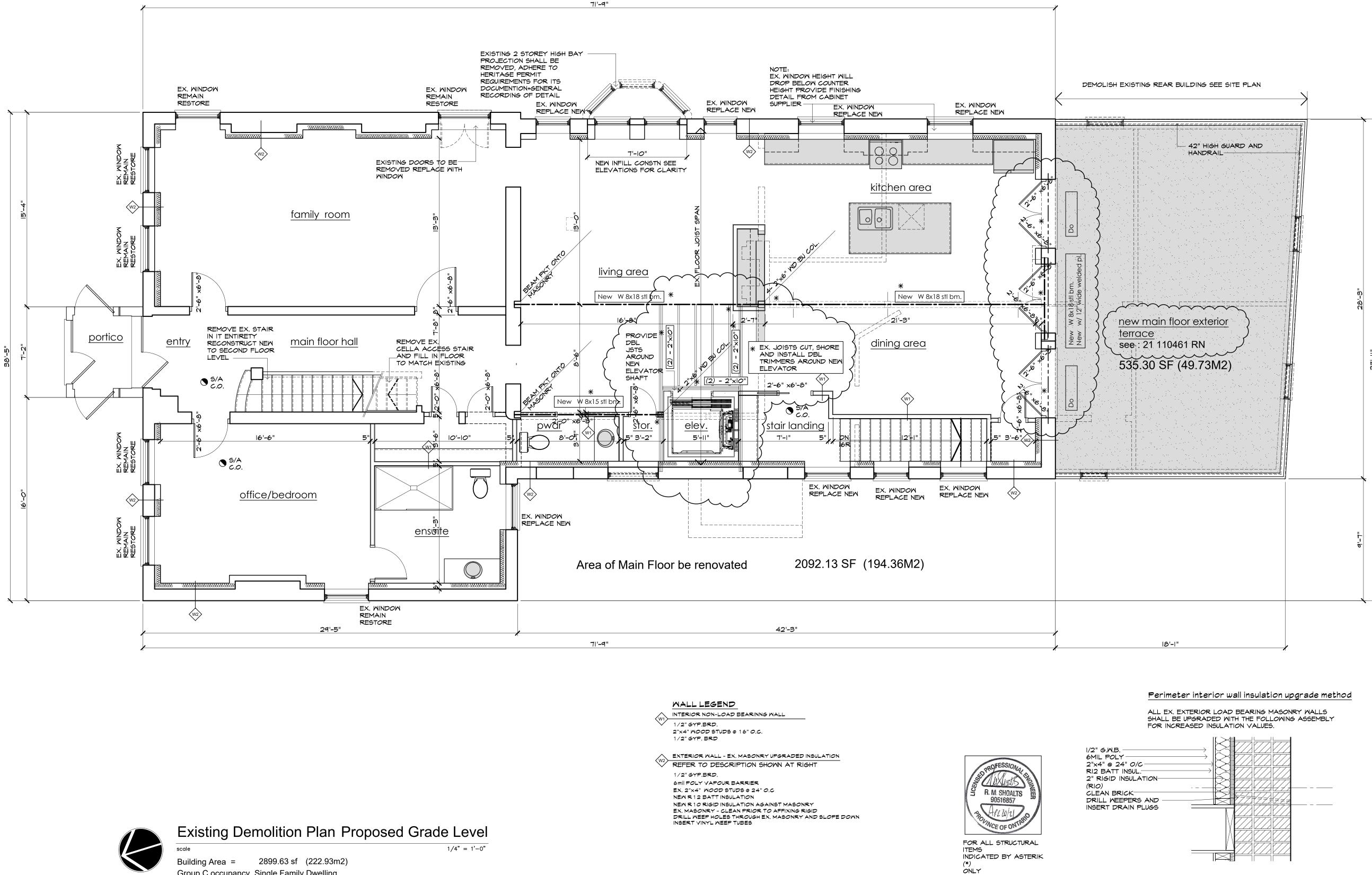


Area of Basement to be renovated	798.98 SF (68.
Area of Main Floor be renovated	2092.13 SF (19
Area of upper floor to be renovated	2107.14 SF (19
total renovated floor area = total main floor exterior uncovered terrace = total renovated basement area =	4199.27SF (390 535.30 (49.73N 798.98SF (68.6





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Group C occupancy Single Family Dwelling



29 Yates Street



notes

Interior alterations phase permit ref : 21 114654 RN



drawing

Ground (Main) Level - Existing

disclaimer

do not scale drawings, verify all dimensions and information prior to construction report any errors and/or descrepancies to the maker of these plans immediately . All construction must meet or exceed all applicable current building codes including all revisions. Contractor shall be responsible for proceeding with work not fully checked or verified on site to ensure intent of the drawings are fully adhered to in regards to the basic design intent.

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date of issues and revisions

A. ISSUED FOR BUILDING PERMIT 2021-05-17 AAH

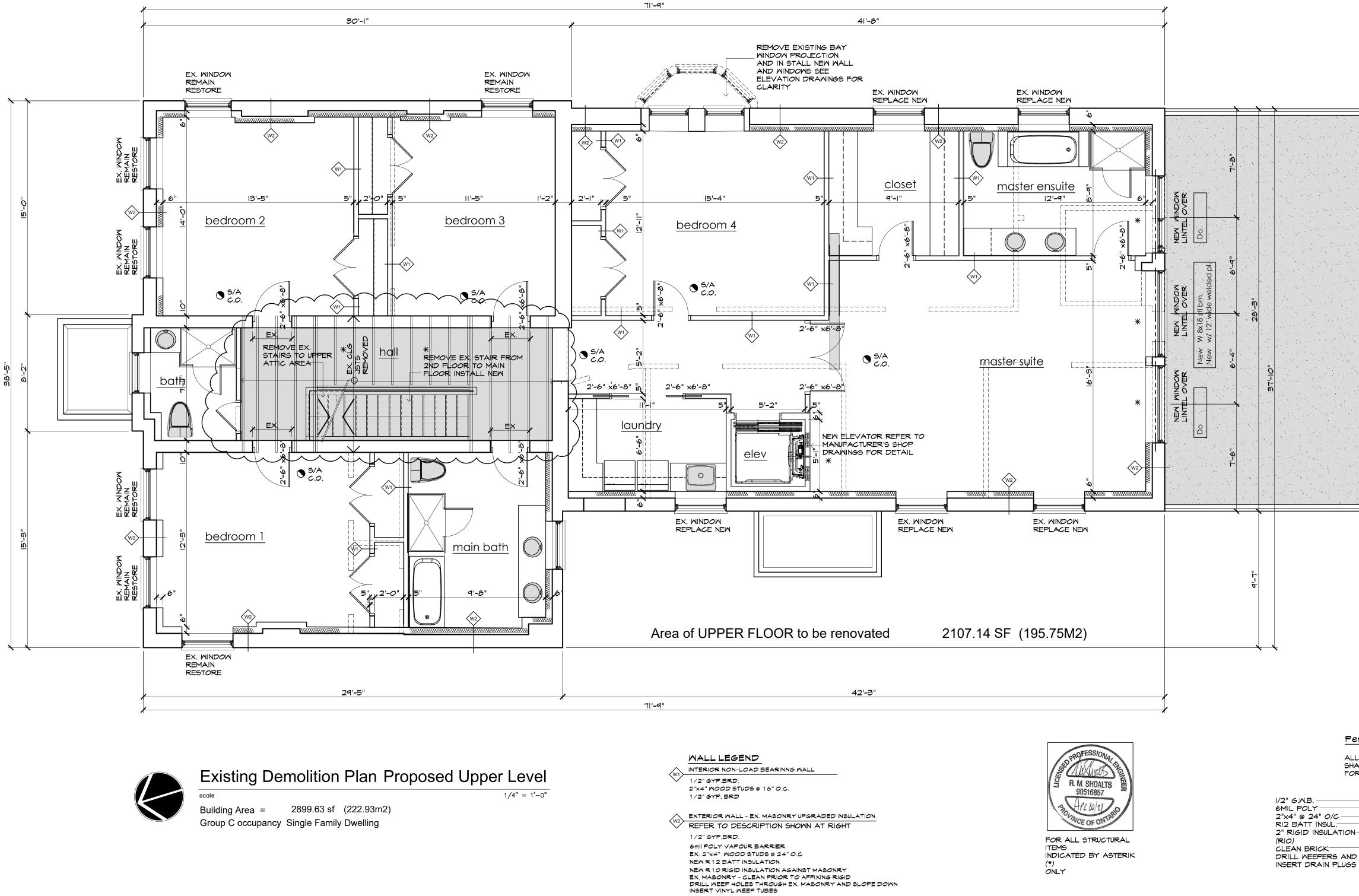
B. PERMIT SEPARATION (INTERIOR) AND ITEMS ADDRESSED OF CITY'S LETEER DATED JUNE 27 2021 - AAH

drawn

drawing no.

reviewed











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drawn

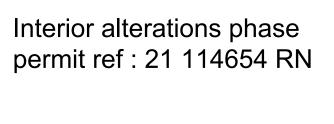
drawing no.

reviewed

DRILL WEEPERS AND -INSERT DRAIN PLUGS

Perimeter interior wall insulation upgrade method

ALL EX. EXTERIOR LOAD BEARING MASONRY WALLS SHALL BE UPGRADED WITH THE FOLLOWING ASSEMBLY FOR INCREASED INSULATION VALUES.



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

HOW

SIGNATURE

REGISTRATION INFORMATION Required unless design is exempt under Div. C, Article 3.2.4.1 of

Andrew Allen Hellwig Design Consultants Inc.

Upper Floor

Level - Existing

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date of issues and revisions

18776

BCIN

114357

BCIN

Required unless design is exempt under Div. C, Article 3.2.5.1 of the Building Code

ANDREW HELLWIG

the Building Code

FIRM NAME

disclaimer

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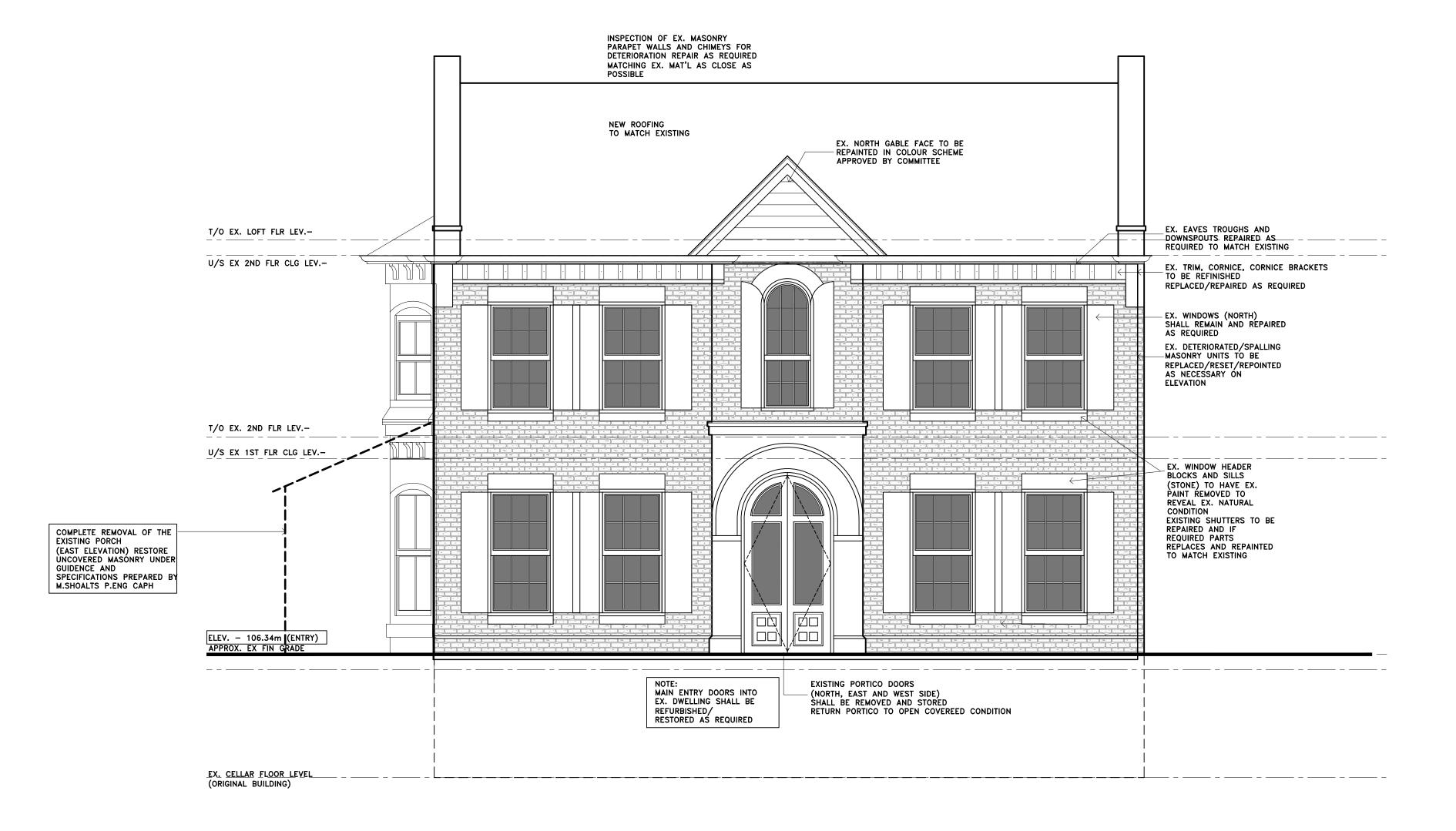
drawing

NAME

notes

29 Yates Street





scale

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North (Front) Elevation facing Yates Street

1/4" = 1'-0"

29 Yates Street



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notes

Interior alterations phase permit ref : 21 114654 RN



drawing

North Building Elevation

disclaimer

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B. PERMIT SEPARATION (INTERIOR) AND ITEMS ADDRESSED OF CITY'S LETEER DATED JUNE 27 2021 - AAH

drawn

drawing no.

reviewed

A3.01

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1/4" = 1'-0"

29 Yates Street

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BCIN

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BCIN

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drawn

drawing no.

reviewed

A3.02





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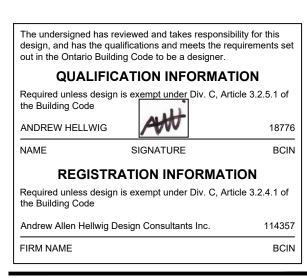
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29 Yates Street



notes

Interior alterations phase permit ref : 21 114654 RN



drawing

East Building Elevation Baywindow Modification

disclaimer

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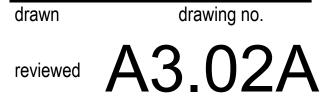
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date of issues and revisions

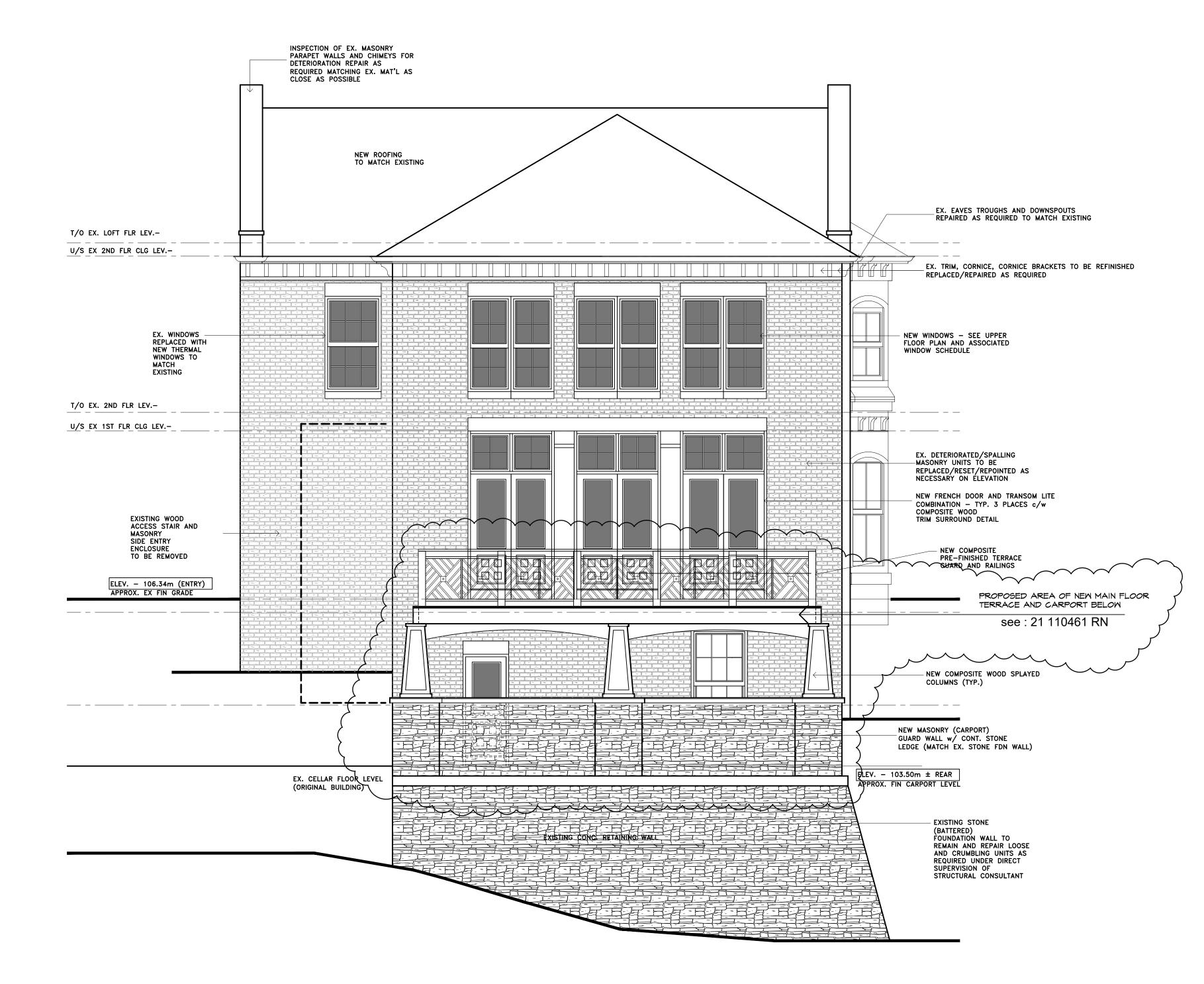
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B. PERMIT SEPARATION (INTERIOR) AND ITEMS ADDRESSED OF CITY'S LETEER DATED JUNE 27 2021 - AAH

drawn



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South (Rear) Elevation scale

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1/4" = 1'-0"

29 Yates Street



notes

Interior alterations phase permit ref : 21 114654 RN



drawing

South Building Elevation

disclaimer

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date of issues and revisions

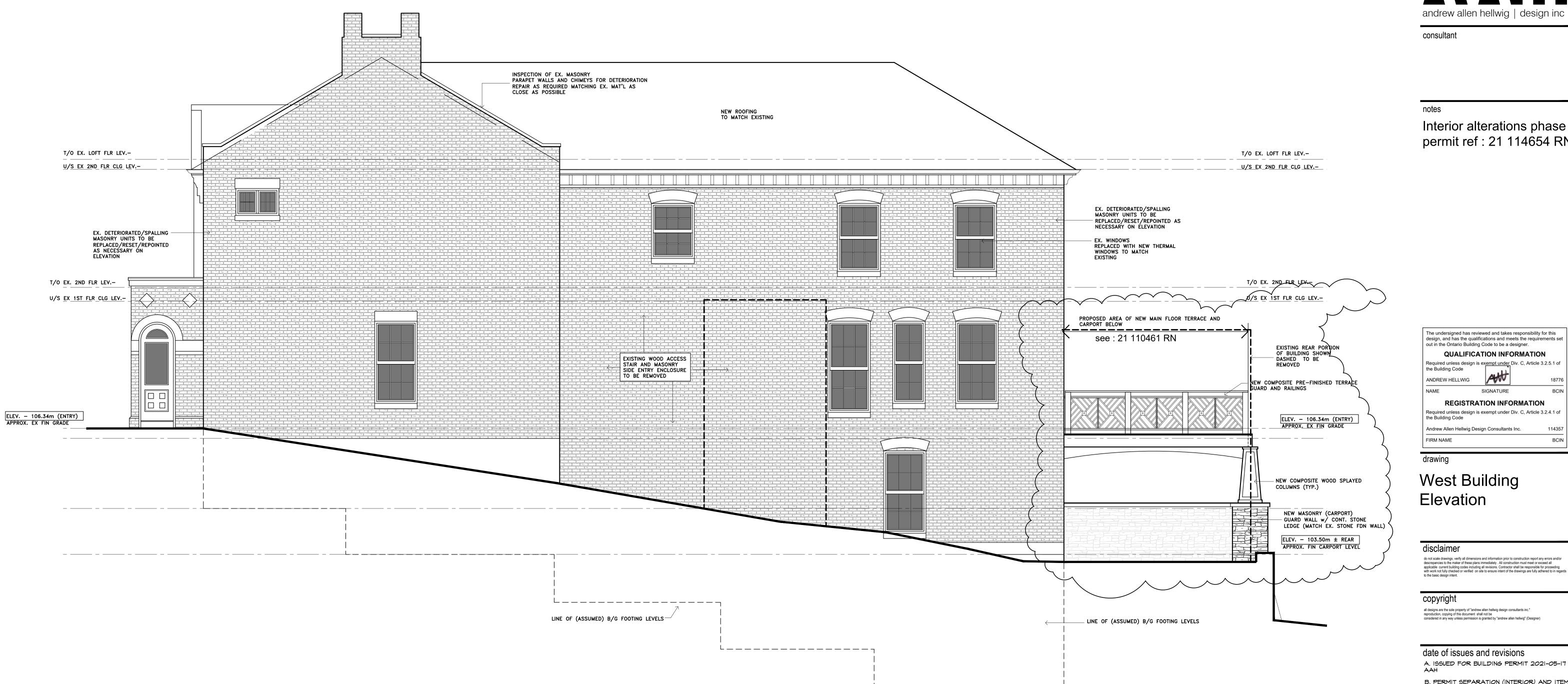
A. ISSUED FOR BUILDING PERMIT 2021-05-17 AAH

B. PERMIT SEPARATION (INTERIOR) AND ITEMS ADDRESSED OF CITY'S LETEER DATED JUNE 27 2021 - AAH

drawn

drawing no. reviewed A3.03

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West (Right Side) Elevation

scale

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1/4" = 1'-0"

29 Yates Street



Interior alterations phase permit ref : 21 114654 RN

18776

BCIN

114357

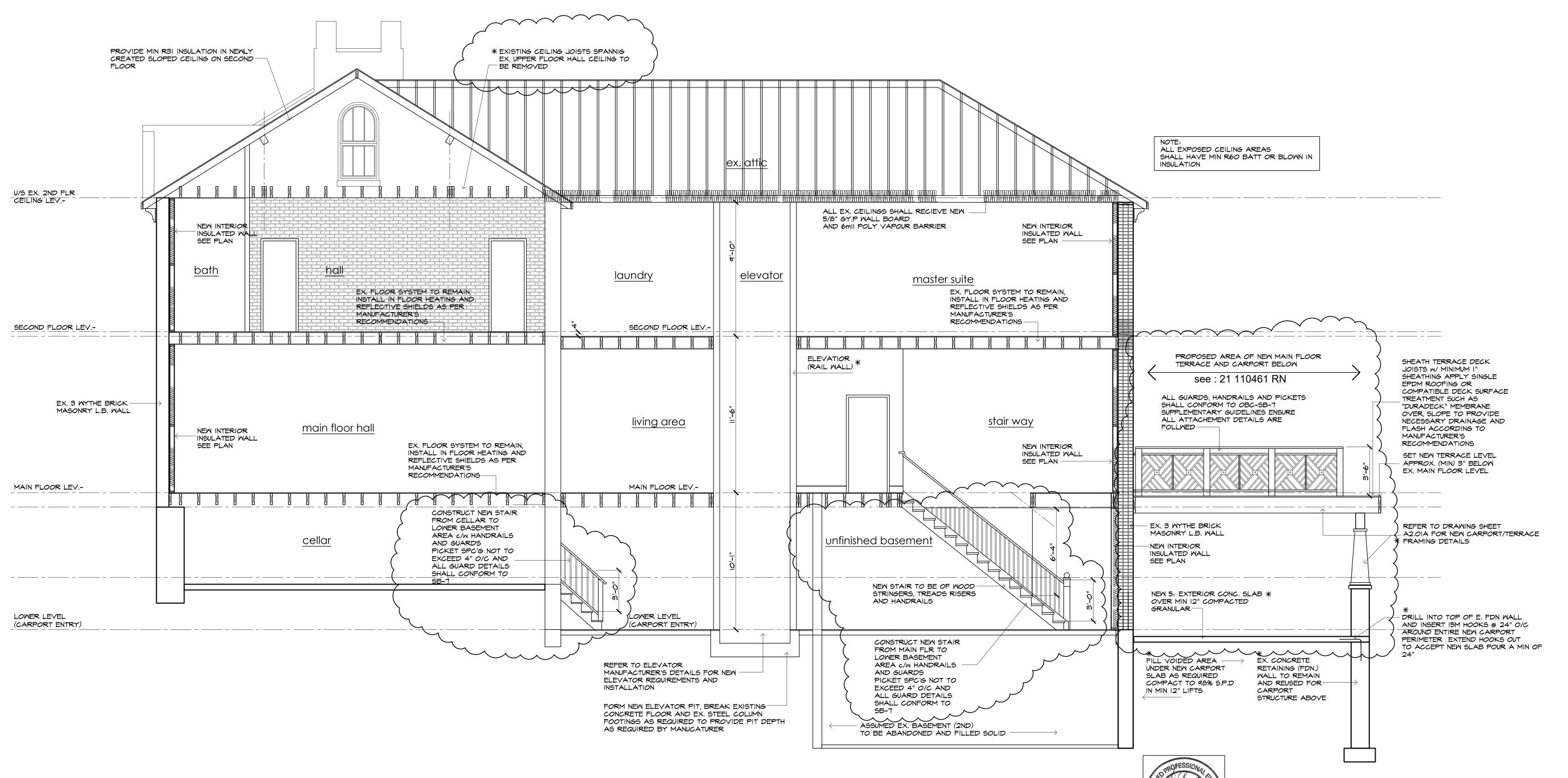
BCIN

A. ISSUED FOR BUILDING PERMIT 2021-05-17 B. PERMIT SEPARATION (INTERIOR) AND ITEMS ADDRESSED OF CITY'S LETEER DATED JUNE 27 2021 - AAH

drawn

drawing no. reviewed A3.04

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FOR ALL STRUCTURAL ITEMS

(*) ONLY

29 Yates Street



notes

Interior alterations phase permit ref : 21 114654 RN

The undersigned has reviewed and takes responsibility for this design, and has the qualifications and meets the requirements se out in the Ontario Building Code to be a designer. QUALIFICATION INFORMATION Required unless design is exempt under Div. C, Article 3.2.5.1 of the Building Code ANDREW HELLWIG ADAN 18776 SIGNATURE BCIN NAME **REGISTRATION INFORMATION** Required unless design is exempt under Div. C, Article 3.2.4.1 of the Building Code Andrew Allen Hellwig Design Consultants Inc. 114357 FIRM NAME BCIN

drawing

Building Section

disclaimer

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date of issues and revisions

A. ISSUED FOR BUILDING PERMIT 2021-05-17 AAH

B. PERMIT SEPARATION (INTERIOR) AND ITEMS ADDRESSED OF CITY'S LETEER DATED JUNE 27 2021 - AAH

drawn

drawing no.

reviewed

