Sheet List		
Sheet Number	Sheet Name	
A00	COVER SHEET	
A01	SITE PLAN	
A02	ENLARGED SITE PLAN	
A03	BASEMENT PLAN	
A04	FIRST FLOOR PLAN	
A05	SECOND FLOOR PLAN	
A06	ROOF PLAN	
A07	FRONT & RIGHT SIDE ELEVATION	
A08	REAR & LEFT SIDE ELEVATION	
A09	HOUSE SECTION & PARTY WALL DETAILS	
A10	HOUSE SECTION, LINTEL SCHEDULES, FIRE WALL DETAILS & SECTION	
A11	TYPICAL WALL SECTION & WALL SCHEDULE	
A12	TYPICAL DETAILS	
A13	GENERAL NOTES	
A14	DOOR & WINDOW SCHEDULE	



(ARTISTIC EXPRESSION VIEW)

SB-12 ENERGY EFFICIENCY DESIGN MATRIX

PERFOMANCE COMPLIANCE

	SPACE HEA	TING FUEL
	GAS	OIL
	ELECTRIC	PROPAN
	EARTH	SOLID F
BUILDING COMPONENT	REQUIRED	PROPOSE
INSULATION RSI (R) VALUE		
CEILING W/ ATTIC SPACE	10.56 (R60)	10.56 (R60)
CEILING W/O ATTIC SPACE	5.46 (R31)	5.46 (R31)
EXPOSED FLOOR	5.46 (R31)	5.46 (R31)
WALLS ABOVE GRADE	3.87 (R22)	3.87 (R22)
	3.52 ci	3.52 ci
BASEMENT WALLS	(R20 ci)	(R20 ci)
BELOW GRADE SLAB ENTIRE SURFACE >600mm BELOW GRADE	-	-
EDGE OF BELOW GRADE SLAB < 600mm BELOW GRADE	1.76 (R10)	1.76 (R10)
HEATED SLAB < 600mm BELOW GRADE	1.76 (R10)	1.76 (R10)
WINDOWS & DOORS		
WINDOWS SLIDING GLASS DOORS (MAX U-VALUE / MIN. ER)	1.6	1.6
SKYLIGHTS (MAX. U-VALUE)	2.8	2.8
APPLIANCE EFFICIENCY		
SPACE HEATING EQUIP. (AFUE%)	96%	96%
HRV. EFFICIENCY (%)	75%	75%
DHW HEATER (EF)	0.80	0.80

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QUALIFICATION INFORMATION REQUIRED UNLESS THE DESIGN IN EXEMPT UNDER DIVISION C - 3.2.5.1 OF THE 2012

ONTARIO BUILDING CODE.

NILAMRAJ (RAJ) PATEL

1006

REGISTRATION INFORMATION REQUIRED UNLESS THE DESIGN IS EXEMPT UNDER DIVISION C - 3.2.4.1 OF THE 2012 ONTARIO BUILDING CODE.

AME 111189



TRATED DESIGN FIRM
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Phone: 647-556-2596

No.: Revision:

FOR REVIEW PERMIT

2 Relssued For Review 2022/11/25
1 Issued For Review 2022/11/12
No.: Issued For: Date:

Client Name:

Drawing Title:

COVER SHEET

KOLE

PROPOSED TWO STOREY TOWNHOUSE, LOT 6 TO 10, DORCHESTER ROAD, CITY OF NIAGARA FALLS

Drawn by:

MJ
Checked by:
RP
Project No.:

Date:
2022/11/01
Drawing No.:

A00

EXISTING RESIDENTIAL UNIT - 3 4 5 UNIT - 4 UNIT - 5 UNIT - 1 UNIT - 2 115' - 4" (35.15 m) 23' - 1" (7.03 m) PROPOSED TWO STOREY TOWNHOUSE F.F.E. = 198.39M F.F.E. = 198.39M F.F.E. = 198.39M F.F.E. = 198.28M F.F.E. = 198.28M 12' - 2" (3.71 m) 12' - 2" (3.71 m) 12' - 4 1/2" (3.77 m) 12' - 2" (3.71 m) 9' - 10 1/2" (3.0|1 m) GARAGE GARAGE GARAGE DRIVEWAY DRIVEWAY **DRIVEWAY** DRIVEWAY DRIVEWAY PORCH STREET 'A'

PLEASE REFER TO GRADING PLAN FOR GRADING ELEVATIONS.

198.39M. = +/-0'-0'' F.F.L. (LOT - 6 TO 8)

198.39 METER REFERS TO +/- 0'-0" OF FINISHED MAIN FLOOR LEVEL OF THE HOUSE, REFER GRADING PLAN FOR GRADING LEVELS

198.28M. = +/-0'-0'' F.F.L. (LOT - 9 & 10)

198.28 METER REFERS TO +/- 0'-0" OF FINISHED MAIN FLOOR LEVEL OF THE HOUSE, REFER GRADING PLAN FOR GRADING LEVELS

SITE BASE INFORMATION TAKEN FROM LOT GRADING PLAN DATED 2022-08-29 AND SITE PLAN DATED 2022-07-04 BY UPPER CANADA CONSULTANTS.

LOCATION LOT 6-10

CITY OF NIAGARA FALLS.

OITE DATA		
SITE DATA		T
FRONT SET BACK	4.33 M	14'-2 1/2"
REAR SET BACK	7.33 M	24'-0 1/2"
RIGHT SIDE SET BACK	1.50 M	4'-11 1/4"
LEFT SIDE SET BACK	1.50 M	4'-11 1/4"
HEIGHT OF BUILDING	8.53 M	27'-11 1/2"
FLOOR AREA		
UNIT 1 (LOT - 6)		
FIRST FLOOR	55.60 SQM	598.44 SQF
SECOND FLOOR	77.97 SQM	839.25 SQF
TOTAL AREA	133.57 SQM	1437.69 SQF
UNIT 2 (LOT - 7)		
FIRST FLOOR	55.40 SQM	596.30 SQF
SECOND FLOOR	79.25 SQM	853.08 SQF
TOTAL AREA	134.65 SQM	1449.38 SQF
UNIT 3 (LOT - 8)		
FIRST FLOOR	54.60 SQM	587.73 SQF
SECOND FLOOR	78.85 SQM	848.70 SQF
TOTAL AREA	133.45 SQM	1436.43 SQF
UNIT 4 (LOT - 9)		_
FIRST FLOOR	54.81 SQM	589.97 SQF
SECOND FLOOR	78.95 SQM	849.84 SQF
TOTAL AREA	133.76 SQM	1439.81 SQF
UNIT 5 (LOT - 10)		
FIRST FLOOR	55.30 SQM	595.23 SQF
SECOND FLOOR	77.85 SQM	837.93 SQF
TOTAL AREA	133.15 SQM	1433.16 SQF
GRAND TOTAL	668.57 SQM	7196.47 SQF

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NILAMRAJ (RAJ) PATEL 1000

THE UNDERSIGNED HAS REVIEWED AND TAKEN RESPONSIBILITY

NAME SIGNATURE BCIN

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BUILDING CODE.

DS RM NAME



TRANSPORT TRANSPORT TO THE TRANSPORT TRANSPORT

No.: Revision:

Email: contact@rpdstudio.ca
Phone: 647-556-2596

Date:

CORPERNITY

2 Relssued For Review 2022/11/25
1 Issued For Review 2022/11/12

No.: Issued For:

Client Name:

Drawing Title:

ENLARGED SITE PLAN

KOLE

Drawn by:

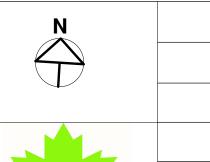
Checked by:

Project No.:

2022/11/01 Drawing No.:

A02

PROPOSED TWO STOREY TOWNHOUSE, LOT 6 TO 10, DORCHESTER ROAD, CITY OF NIAGARA FALLS



1) ENLARGED SITE PLAN 1/8" = 1'-0"

	COLUMN/POST
COLUMN TYPE	COLUMN SIZE
C1	HSC 102DIA.X6.4 (FOR BASE PLATE AND ANCHOR BOLT SPECS, REFER TO STRUCTURAL DRAWINGS)
C2	HSS 102X102X4.8 (FOR BASE PLATE AND ANCHOR BOLT SPECS, REFER TO STRUCTURAL DRAWINGS)
C3	HSS 127X127X4.8(5"X5"X3/16") (FOR BASE PLATE AND ANCHOR BOLT SPECS, REFER TO STRUCTURAL DRAWINGS)
P1	6X6 S-P-F NO.2
P2	2-2X6 S-P-F
P3	3-2X6 S-P-F
P4	4-2X6 S-P-F
P5	4-2X4 S-P-F

FOOTING	i
FOOTING TYPE	FOOTING SIZE
F1	48"X48"X10" c/w 5-10M BARS EA WAY BOTTOM
SF1	20"X6" STRIP FTG.
SF2	22"X6" STRIP FTG.
SF3	24"X6" STRIP FTG.
SF4	22"X8" STRIP FTG.

BASE PLATE SCH	IEDULE
BASE PLATE TYPE	LOCATION
9"X5"X3/8" c/w 2-5/8" ANCHORS	C1(FOUNDATION WALL)
8"X8"X1/2" c/w 2-5/8" ANCHORS	C1(FOOTING PAD)

MAX. ALLOWED SPAN C AS PER OBC TABLE A-1 (WITH	
JOIST SPACING	MAXIMUM SPAN
2X10 @ 16" O.C.	14'-0"

2X10 @ 12" O.C.	15'-0"
AS PER OBC TABLE A-2 (WITH	HOUT STRAPPING & BRIDGING
JOIST SPACING	MAXIMUM SPAN
2X10 @ 16" O.C.	13'-0"
2X10 @ 12" O.C.	13'-8"

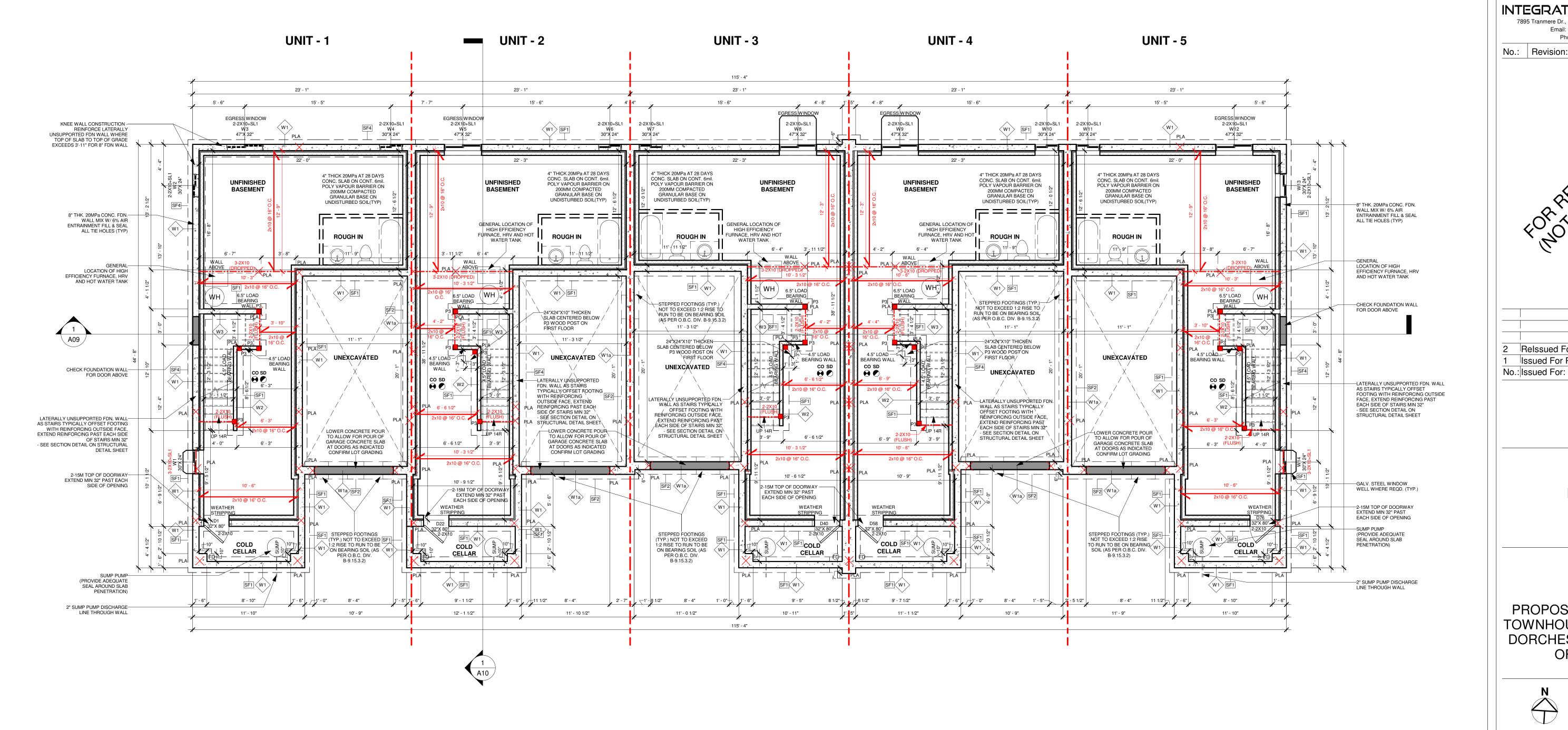
• STRIP FOOTING UNDER LOAD BEARING WALLS MUST HAVE A 6" PROJECTION ON EACH SIDE, AND 8" OR 10" THICK AND 20 MPa POURED CONC. W/ CONT. KEY TO BEAR ON UNDISTURBED SOIL W/ BEARING CAPACITY 150 kPa (3000 psf) MIN -• ALL FOOTING TO BEAR ON UNDISTURBED SOIL, ROCK OR ENGINEERED FILL CERTIFIED BY SOIL ENGINEER • MIN. SOIL BEARING CAPACITY = SLS 150 kPA (3000 psf) & TO BE VERIFIED BY SOIL ENGINEER PRIOR TO POURING THE FOOTING

(*) - SPECIFICATIONS PROVIDED BY MANUFACTURER

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SUPPLIER TAKES RESPONSIBILITY FOR FRAMING OF ALL ENGINEERED LUMBER PRODUCTS INCLUDING FLOOR JOIST, TRUSSES, Pre-ENG.LVL, BEAM AND LINTEL (IF DIFFERENT, FROM THE PROPOSED SIZE) AND WILL PROVIDE APPROVED LAYOUT, REVIEWED AND STAMPED BY ENGINEER. (*) JOIST AS PER SUPPLIER'S SPECIFICATION AND APPROVED DRAWINGS. 2X10 @ 16" O.C. JOIST SIZES MENTIONED ON FLOOR PLAN.

FOR STEEL & WOOD LINTEL SCHEDULE: SEE SHEET A10



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ONTARIO BUILDING CODE. NILAMRAJ (RAJ) PATEL BCIN NAME SIGNATURE

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INTEGRATED DESIGN FIRM 7895 Tranmere Dr., Suite 203, Mississauga ON, L5S1V9 Email: contact@rpdstudio.ca

Date:

Phone: 647-556-2596 No.: Revision:

2 Relssued For Review 2022/11/25 Issued For Review 2022/11/12

Client Name:

Date:

Drawing Title:

BASEMENT PLAN

Project: **KOLE**

PROPOSED TWO STOREY TOWNHOUSE, LOT 6 TO 10, DORCHESTER ROAD, CITY OF NIAGARA FALLS

Drawn by: Checked by: Project No.: 2022/11/01 Drawing No.: A03

BASEMENT PLAN

3/16" = 1'-0"

	COLUMN/POST
COLUMN TYPE	COLUMN SIZE
C1	HSC 102DIA.X6.4 (FOR BASE PLATE AND ANCHOR BOLT SPECS, REFER TO STRUCTURAL DRAWINGS)
C2	HSS 102X102X4.8 (FOR BASE PLATE AND ANCHOR BOLT SPECS, REFER TO STRUCTURAL DRAWINGS)
C3	HSS 127X127X4.8(5"X5"X3/16") (FOR BASE PLATE AND ANCHOR BOLT SPECS, REFER TO STRUCTURAL DRAWINGS)
P1	6X6 S-P-F NO.2
P2	2-2X6 S-P-F
P3	3-2X6 S-P-F
P4	4-2X6 S-P-F
P5	4-2X4 S-P-F

	SPAN OF 2X10 FLOOR JOISTS A-1 (WITH STRAPPING & BRIDGING)
JOIST SPACING	MAXIMUM SPAN
2X10 @ 16" O.C.	14'-0"
2X10 @ 12" O.C.	15'-0"
AS PER OBC TABLE A	A-2 (WITHOUT STRAPPING & BRIDGING)
JOIST SPACING	MAXIMUM SPAN
2X10 @ 16" O.C.	13'-0"

13'-8"

2X10 @ 12" O.C.

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SUPPLIER TAKES RESPONSIBILITY FOR FRAMING OF ALL ENGINEERED LUMBER PRODUCTS INCLUDING FLOOR JOIST, TRUSSES, Pre-ENG.LVL, BEAM AND LINTEL (IF DIFFERENT, FROM THE PROPOSED SIZE) AND WILL PROVIDE APPROVED LAYOUT, REVIEWED AND STAMPED BY ENGINEER. (*) JOIST AS PER SUPPLIER'S SPECIFICATION AND APPROVED DRAWINGS. 2X10 @ 16" O.C. JOIST SIZES MENTIONED ON FLOOR PLAN. FOR STEEL & WOOD LINTEL SCHEDULE: SEE SHEET A10

UNIT - 1 **UNIT - 2 UNIT - 3** UNIT - 5 ——ALUMINUM GUARDRAIL DESIGNED TO — PREVENT PASSAGE OF 4" DIA. SPHERICAL —ALUMINUM GUARDRAIL DESIGNED TO — PREVENT PASSAGE OF 4" DIA. SPHERICAL OBJECT, DOES NOT FACILITATE CLIMBING OBJECT, DOES NOT FACILITATE CLIMBING AND MEETS THE O.B.C. SUBSECTION 9.8.8 TO AND MEETS THE O.B.C. SUBSECTION 9.8.8 TO BE ANCHORED TO WALL WITH STRUCTURAL BE ANCHORED TO WALL WITH STRUCTURAL SCREWS HAVING WITHDRAWL RESISTANCE SCREWS HAVING WITHDRAWL RESISTANCE OF 150 lb/in AND PENETRATING NOT LESS OF 150 lb/in AND PENETRATING NOT LESS THAN 2" INTO SOLID WOOD FRAMING. THAN 2" INTO SOLID WOOD FRAMING. 10' - 7" 5' - 8" KNEE WALL CONSTRUCTION --3-2X10+SL4 W17 3-2X10+SL4 W18 3-2X10+SL4 W21 96"X 60" REINFORCE LATERALLY
UNSUPPORTED FDN WALL WHERE TOP OF SLAB TO TOP OF GRADE EXCEEDS 3'-11" FOR 8" FDN WALL 12' - 8" 13' - 2" 12' - 8" 13' - 2" **FAMILY ROOM** FAMILY ROOM FAMILY ROOM **FAMILY ROOM** KITCHEN **FAMILY ROOM** FOR FIRE WALL DETAIL-REFER TO SHEET(A10) 11' - 11 1/2" PANTRY PANTRY PANTRY PANTRY PANTRY PWDR. **PWDR** —4.5" LOAD BEARING WALL 4.5" LOAD-GARAGE INTERIOR WALLS UP BEARING WALL TO 2ND FLOOR R-22 BATT INSULATION GAS PROOF GARAGE INTERIOR WALLS UP-GARAGE INTERIOR WALLS UP TO 2ND FLOOR R-22 BATT INSULATION GAS PROOF TO 2ND FLOOR R-22 BATT INSULATION GAS PROOF GARAGE INTERIOR WALLS UP GARAGE INTERIOR WALLS UP INTERIOR WALLS & CEILING AS PER O.B.C 9.25 TO 2ND FLOOR R-22 BATT TO 2ND FLOOR R-22 BATT INTERIOR WALLS & CEILING AS PER O.B.C 9.25 INTERIOR WALLS & CEILING AS PER O.B.C 9.25 INSULATION GAS PROOF INSULATION GAS PROOF INTERIOR WALLS & CEILING AS INTERIOR WALLS & CEILING AS ∖ A09 ∕ PRE-ENG TALL WALL BY LUMBER SUPPLIER (SILL PLATE FOR WALL AT STAIR LOCATION TO EXTEND AND ANCHOR TO TOP OF FDN WALL, DO NOT FRAME ON RIM BOARD DUE TO HINGE PRE-ENG TALL WALL BY-LUMBER SUPPLIER (SILL GARAGE GARAGE GARAGE GARAGE GARAGE PLATE FOR WALL AT STAIR LOCATION TO EXTEND AND ANCHOR TO TOP OF FDN WALL, DO NOT FRAME ON 5" CONCRETE SLAB ON GRADE 5" CONCRETE SLAB ON GRADE • 5" CONCRETE SLAB ON GRADE •5" CONCRETE SLAB ON GRADE • 5" CONCRETE SLAB ON GRADE RIM BOARD DUE TO HINGE (32MPa) WITH (32MPa) WITH (32MPa) WITH

• 6" X 6" X #6/6 WELDED WIREMASH 6' - 6 1/2" • 6" X 6" X #6/6 WELDED WIREMASH • 6" X 6" X #6/6 WELDED WIREMASH (32MPa) WITH • 6" X 6" X #6/6 WELDED WIREMASH • 6" X 6" X #6/6 WELDED WIREMASH 8" CLEAR CRUSHED STONE 8" CLEAR CRUSHED STONE 8" CLEAR CRUSHED STONE
 REMOVE TOP SOIL AS PER O.B.C. *8" CLEAR CRUSHED STONE
 *REMOVE TOP SOIL AS PER O.B.C. 8" CLEAR CRUSHED STONE REMOVE TOP SOIL AS PER O.B.C. REMOVE TOP SOIL AS PER O.B.C. 6' - 3" 36" (HEIGHT) HANDRAIL IF--36" (HEIGHT) HANDRAIL IF REMOVE TOP SOIL AS PER O.B.C. AGAINST A WALL OR 42" (HEIGHT HANDRAIL IF DIV. 9.12.1.1
• SLOPE TO GARAGE DOOR AGAINST A WALL OR 42" (HEIGHT HANDRAIL IF FLEX / DIV. 9.12.1.1 • SLOPE TO GARAGE DOOR • SLOPE TO GARAGE DOOR • SLOPE TO GARAGE DOOR FLEX / STUDY STUDY SLOPE TO GARAGE DOOR GUARD REQUIRED (O.B.C. DIV. B, 9.8.7.4) - PROV'D 2" GUARD REQUIRED (O.B.C. DIV. B, 9.8.7.4) - PROV'D 2" FLEX / FLEX / STUDY STUDY STUDY CLEARANCE FROM WALL WITH NO MORE THAN 4 CLEARANCE FROM WALL WITH NO MORE THAN 4" FOR PARTY WALL DETAIL— REFER TO SHEET(A09) FOR PARTY WALL DETAIL REFER-FOR PARTY WALL DETAIL— REFER TO SHEET(A09) 11' - 1" 10' - 3 1/2" 10' - 6" PROJECTED INTO REQUIRED STAIR WIDTH PROJECTED INTO REQUIRED STAIR WIDTH TO SHEET(A09) 10' - 3 1/2" 11' - 3 1/2" 11' - 3 1/2" 11' - 1" (REFER TO O.B.C. DIV. B,9.8.7) 2x10 @ 16" O.C. P.ENG.LVL+SL4 7' - 7 1/2" D60 96"X 84" **FOYER** 5" THICK REINFORCED PORCH-SLAB 32MPa w/ 5% - 8% AIR ENTRAINMENT 15M BARS AT 12" O/C w MIN 40mm COVER 5" THICK REINFORCED PORCH SLAB 32MPa w/ 5% - 8% AIR ENTRAINMENT 15M BARS AT 12" O/C w MIN 40mm COVER PROVIDE PROVIDE 10M DOWEL BARS 24"x24" AROUND PERIMETER W26 18"X 18" W27 W24 18"X 18" W25 AT 24" O/C - BEND INTO TOP 3-2X10+SL4 10M DOWEL BARS 24"x24" AROUND OF SLAB PERIMETER AT 24" O/C - BEND INTO TOP OF SLAB PRE-FAB CONC. STEP(S)

NUMBER OF STEPS REQUIRED VARIES

BASED ON FINAL GRADING (REFER TO

GRADING PLAN FOR NUMBER PRE-FAB CONC. STEP(S NUMBER OF STEPS REQUIRED 4' - 3" 4' - 3" 6' - 10" 5' - 9 1/2" 5' - 2" 5' - 3" 8 1/2"-4' - 3" 5' - 1 1/2" VARIES BASED ON FINAL GRADING (REFER TO 12' - 1 1/2" 11' - 11 1/2" 10' - 11 1/2" 11' - 10" REQUIRED AND SITE VERIFY) GRADING PLAN FOR NUMBER 21' - 10 1/2" 23' - 3 1/2" REQUIRED AND SITE VERIFY) 115' - 4"

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NILAMRAJ (RAJ) PATEL BCIN NAME SIGNATURE REGISTRATION INFORMATION REQUIRED UNLESS THE DESIGN IS EXEMPT UNDER DIVISION C - 3.2.4.1 OF THE 2012 ONTARIO

BUILDING CODE.

RPDS FIRM NAME



INTEGRATED DESIGN FIRM 7895 Tranmere Dr., Suite 203, Mississauga ON, L5S1V9

Email: contact@rpdstudio.ca Phone: 647-556-2596 No.: Revision:

Date:

2 Relssued For Review 2022/11/25 Issued For Review 2022/11/12

No.: Issued For:

Date:

Client Name:

Drawing Title:

FIRST FLOOR PLAN

Project: **KOLE**

Scale:

PROPOSED TWO STOREY TOWNHOUSE, LOT 6 TO 10, DORCHESTER ROAD, CITY OF NIAGARA FALLS

Drawn by: Checked by: Project No.: 2022/11/01 Drawing No.: A04

	COLUMN/POST
COLUMN TYPE	COLUMN SIZE
C1	HSC 102DIA.X6.4 (FOR BASE PLATE AND ANCHOR BOLT SPECS, REFER TO STRUCTURAL DRAWINGS)
C2	HSS 102X102X4.8 (FOR BASE PLATE AND ANCHOR BOLT SPECS, REFER TO STRUCTURAL DRAWINGS)
C3	HSS 127X127X4.8(5"X5"X3/16") (FOR BASE PLATE AND ANCHOR BOLT SPECS, REFER TO STRUCTURAL DRAWINGS)
P1	6X6 S-P-F NO.2
P2	2-2X6 S-P-F
P3	3-2X6 S-P-F
P4	4-2X6 S-P-F
P5	4-2X4 S-P-F

	SPAN OF 2X10 FLOOR JOIST: -1 (WITH STRAPPING & BRIDGING)
JOIST SPACING	MAXIMUM SPAN
2X10 @ 16" O.C.	14'-0"
2X10 @ 12" O.C.	15'-0"
AS PER OBC TABLE A	-2 (WITHOUT STRAPPING & BRIDG
JOIST SPACING	MAXIMUM SPAN
2X10 @ 16" O.C.	13'-0"

13'-8"

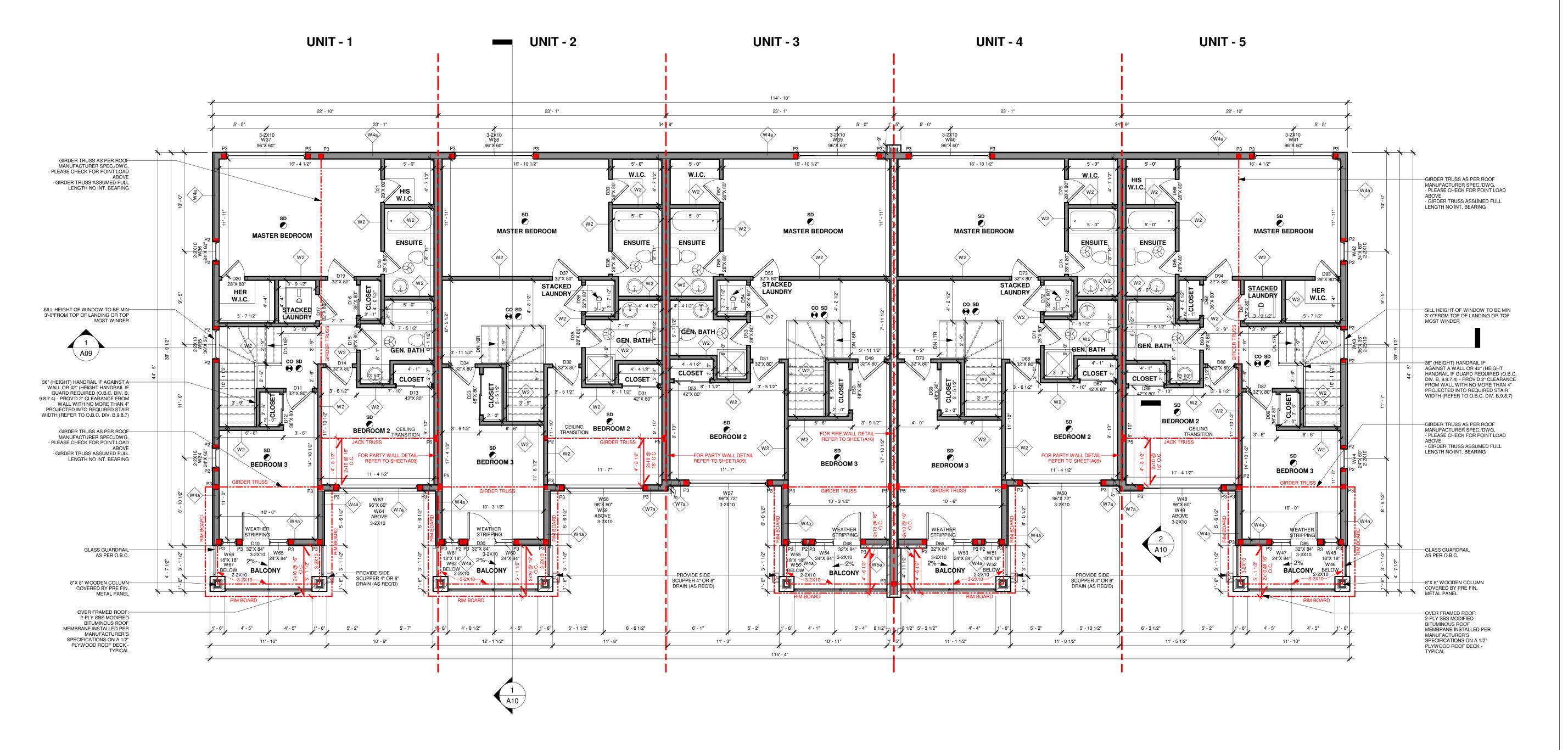
2X10 @ 12" O.C.

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SUPPLIER TAKES RESPONSIBILITY FOR FRAMING OF ALL ENGINEERED LUMBER PRODUCTS INCLUDING FLOOR JOIST, TRUSSES, Pre-ENG.LVL, BEAM AND LINTEL (IF DIFFERENT, FROM THE PROPOSED SIZE) AND WILL PROVIDE APPROVED LAYOUT, REVIEWED AND STAMPED BY ENGINEER.

(*) JOIST AS PER SUPPLIER'S SPECIFICATION AND APPROVED DRAWINGS. JOIST SIZES MENTIONED ON FLOOR PLAN.

FOR STEEL & WOOD LINTEL SCHEDULE : SEE SHEET A10



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NILAMRAJ (RAJ) PATEL SIGNATURE NAME

EXEMPT UNDER DIVISION C - 3.2.4.1 OF THE 2012 ONTARIO BUILDING CODE.

FIRM NAME

No.: Revision:

REGISTRATION INFORMATION REQUIRED UNLESS THE DESIGN IS



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Email: contact@rpdstudio.ca Phone: 647-556-2596

Date:

2 Relssued For Review 2022/11/25 Issued For Review 2022/11/12 Date: No.: Issued For:

Client Name:

Drawing Title:

SECOND FLOOR PLAN

KOLE

PROPOSED TWO STOREY TOWNHOUSE, LOT 6 TO 10, DORCHESTER ROAD, CITY OF NIAGARA FALLS

N	Scale:
	Drawn by:
	Checked by:
	RP
	Project No.:
Пп	Date:
	2022/11/01 Drawing No.:
BILD®	A05

SECOND FLOOR PLAN

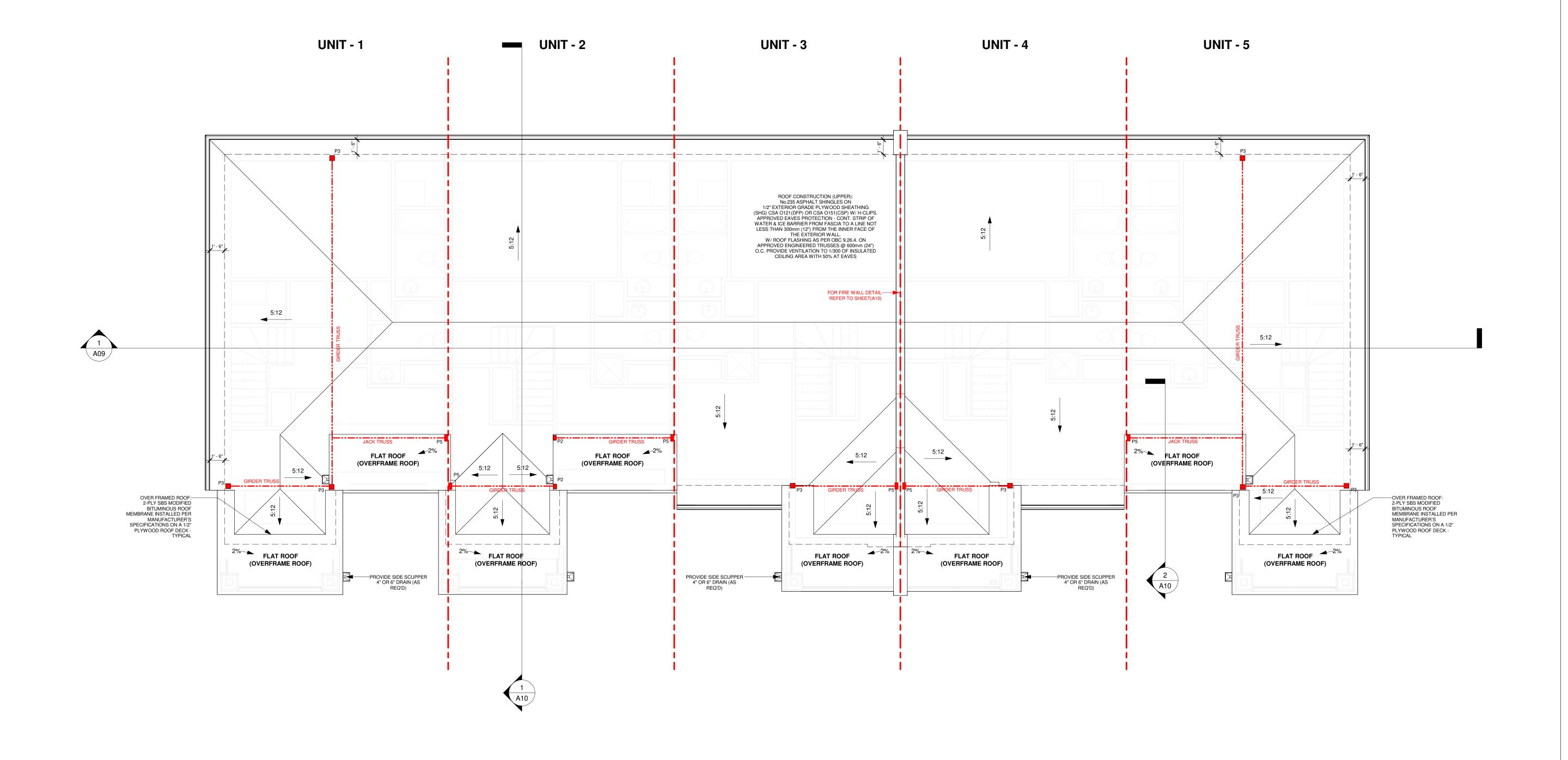
3/16" = 1'-0"

	COLUMN/POST						
COLUMN TYPE	COLUMN SIZE						
C1	HSC 102DIA.X6.4 (FOR BASE PLATE AND ANCHOR BOLT SPECS, REFER TO STRUCTURAL DRAWINGS)						
C2	HSS 102X102X4.8 (FOR BASE PLATE AND ANCHOR BOLT SPECS, REFER TO STRUCTURAL DRAWINGS)						
C3	HSS 127X127X4.8(5"X5"X3/16") (FOR BASE PLATE AND ANCHOR BOLT SPECS, REFER TO STRUCTURAL DRAWINGS)						
P1	6X6 S-P-F NO.2						
P2	2-2X6 S-P-F						
P3	3-2X6 S-P-F						
P4	4-2X6 S-P-F						
P5	4-2X4 S-P-F						

STRUCTURAL NOTE:
STRUCTURE ENGINEER TAKES RESPONSIBILITY FOR ALL
STRUCTURAL DESIGN INCLUDING BUT NOT LIMITED TO
CONCRETE, FOUNDATION, FOOTING, BEAM, LINTEL,
COLUMN, AND OTHER STRUCTURAL DETAILS/DESIGN
REFER TO ADDITIONAL DETAILS ON ENGINEERING DETAIL
SEE STRUCTURAL SHEET

FOR SUPPLIER:
SUPPLIER TAKES RESPONSIBILITY FOR FRAMING OF ALL ENGINEERED LUMBER
PRODUCTS INCLUDING FLOOR JOIST, TRUSSES, Pre-ENG.LVL, BEAM AND LINTEL
(IF DIFFERENT, FROM THE PROPOSED SIZE) AND WILL PROVIDE APPROVED
LAYOUT, REVIEWED AND STAMPED BY ENGINEER.
(*) JOIST AS PER SUPPLIER'S SPECIFICATION AND APPROVED DRAWINGS.
2X10 @ 16" O.C.
JOIST SIZES MENTIONED ON FLOOR PLAN.

FOR STEEL & WOOD LINTEL SCHEDULE : SEE SHEET A10



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FOR THIS DESIGN AND HAS THE QUALIFICATION AND MEETS THE
REQUIREMENTS SET OUT IN ONTARIO BUILDING CODE TO BE A
DESIGNER.

QUALIFICATION INFORMATION REQUIRED UNLESS THE DESIGN IN EXEMPT UNDER DIVISION C - 3.2.5.1 OF THE 2012 ONTARIO BUILDING CODE.

NILAMRAJ (RAJ) PATEL 10062

NAME SIGNATURE BCIN

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RPDS 111189
FIRM NAME BCIN



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| 2 | Relssued For Review | 2022/11/25 | 1 | Issued For Review | 2022/11/12

No.: Issued For:

Date:
Client Name:

Drawing Title:

ROOF PLAN

Pro

KOLE

PROPOSED TWO STOREY TOWNHOUSE, LOT 6 TO 10, DORCHESTER ROAD, CITY OF NIAGARA FALLS

Drawn by:

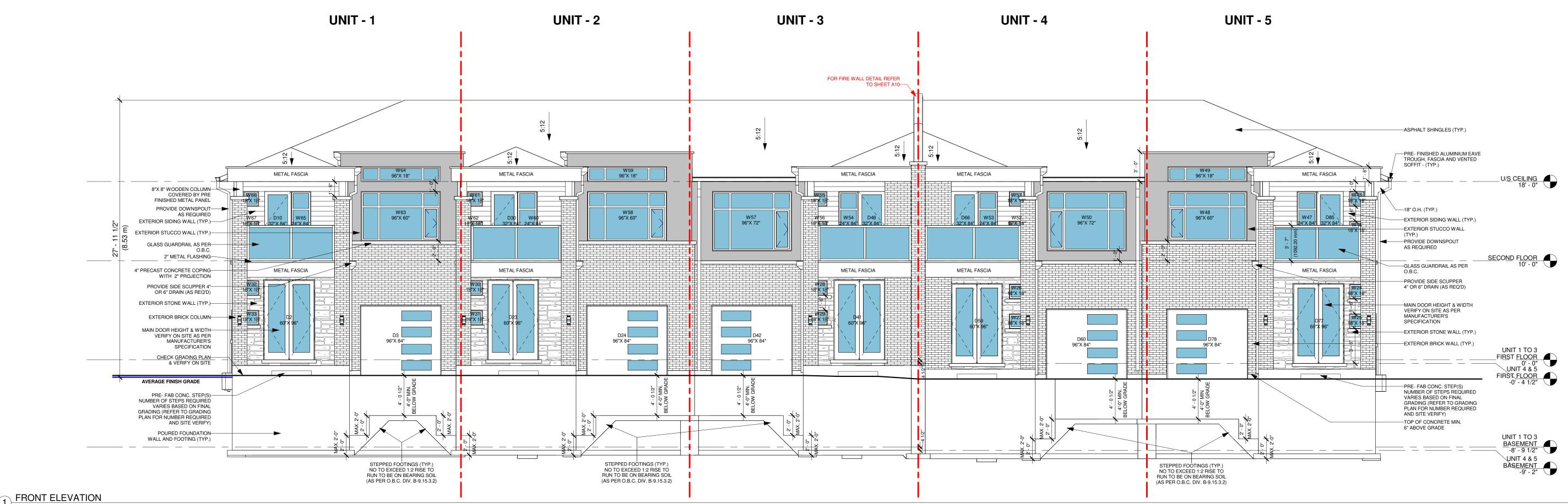
MJ
Checked by:
RP
Project No.:

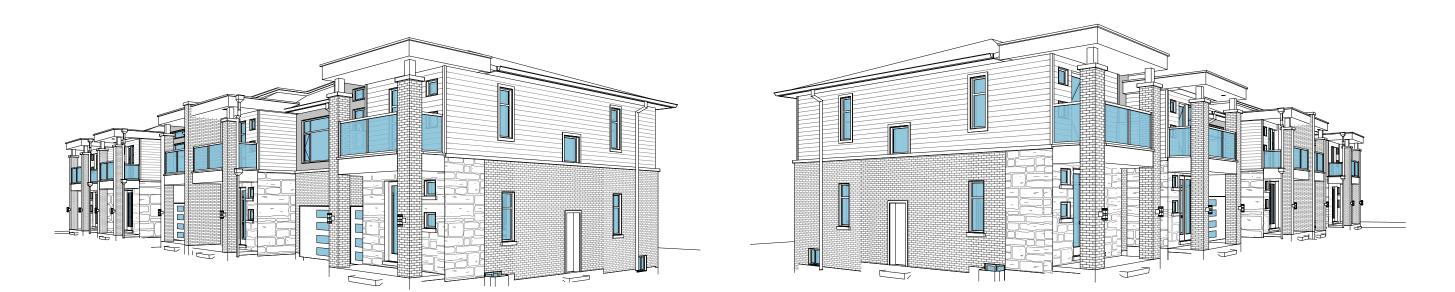
Date:
2022/11/01
Drawing No.:

A06

1 ROOF PLAN 3/16" = 1'-0"

SUPPLIER TAKES RESPONSIBILITY FOR FRAMING OF ALL ENGINEERED LUMBER PRODUCTS INCLUDING FLOOR JOIST, TRUSSES, Pre-ENG.LVL, BEAM AND LINTEL (IF DIFFERENT, FROM THE PROPOSED SIZE) AND WILL PROVIDE APPROVED LAYOUT, REVIEWED AND STAMPED BY ENGINEER. (*) JOIST AS PER SUPPLIER'S SPECIFICATION AND APPROVED DRAWINGS. 2X10 @ 16" O.C. JOIST SIZES MENTIONED ON FLOOR PLAN.



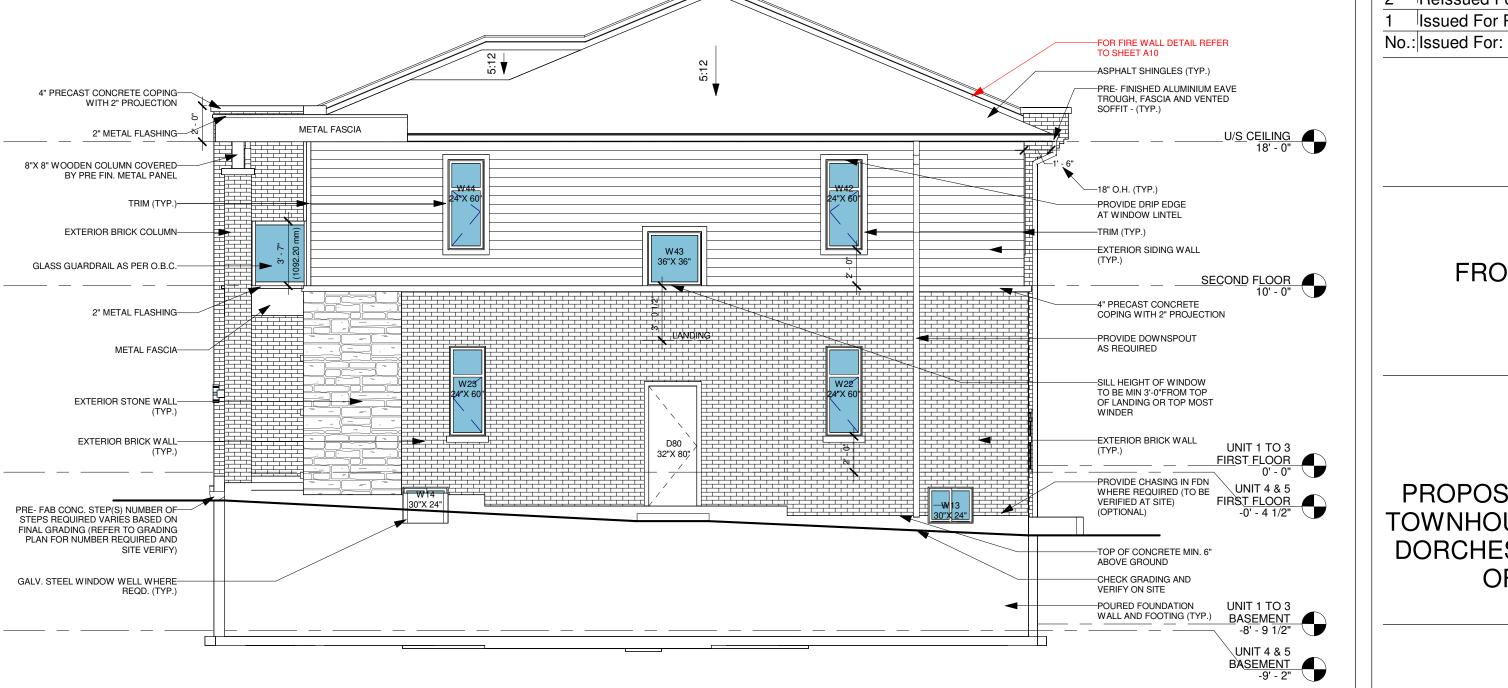


3/16" = 1'-0"

RIGHT SIDE OPENING CALCULATION					
%UNPROTECTED OPENING	DATA				
1. WALL AREA	843.58 SQFT				
2. LIMITING DISTANCE	4'-11 1/4" (1.50 M)				
3. ALLOWABLE OPENINGS	67.49 SQFT (8%)				
4. PROVIDED OPENINGS	65.25 SQFT (7.73%)				

FOR GARAGE, BASEMENT, FF AND PORCH GRADING LEVEL REFER TO GRADING PLAN. IN SITUATION OF DISCREPANCY BETWEEN ARCHITECTURAL DRAWING SET AND CIVIL SET, FOLLOW THE CIVIL SET(GRADING PLAN)

WINDOW SUPPLIER TO ENSURE DOORS & WINDOWS ARE AS PER OBC STANDARD INCLUDING MINIMUM OPENABLE OPENINGS



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NILAMRAJ (RAJ) PATEL NAME SIGNATURE

BUILDING CODE. RPDS FIRM NAME

REGISTRATION INFORMATION REQUIRED UNLESS THE DESIGN IS EXEMPT UNDER DIVISION C - 3.2.4.1 OF THE 2012 ONTARIO



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Phone: 647-556-2596

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Client Name:

Date:

Drawing Title:

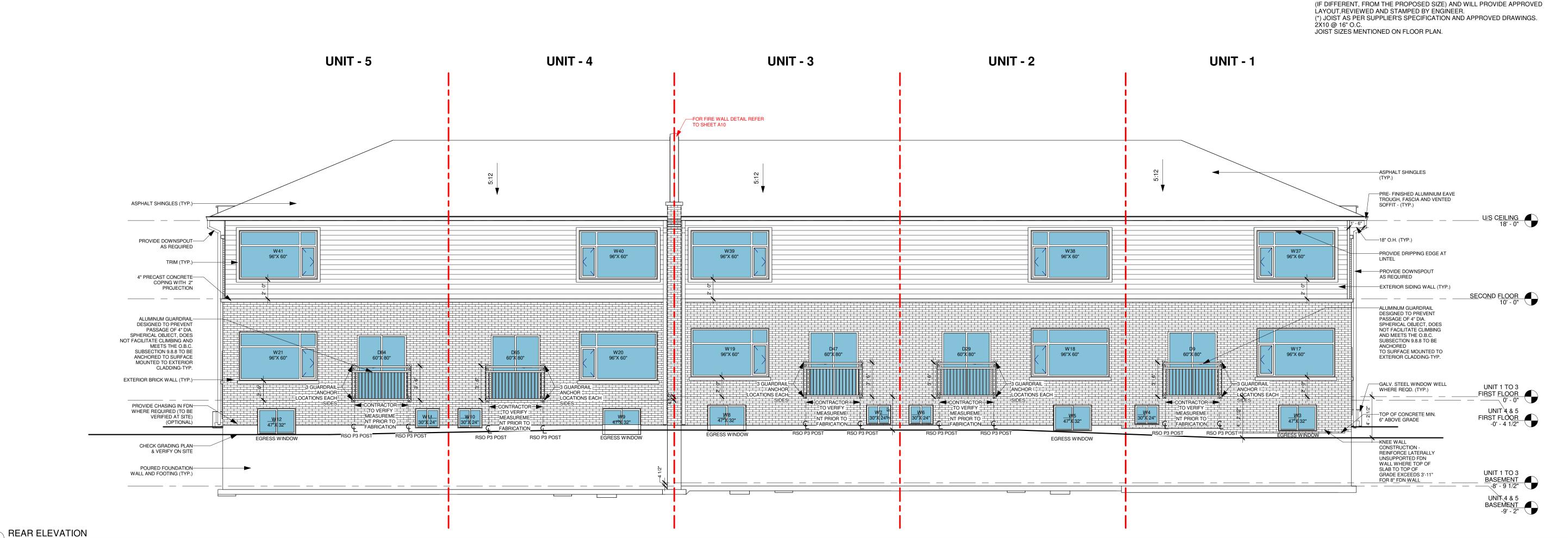
FRONT & RIGHT SIDE **ELEVATION**

KOLE

PROPOSED TWO STOREY TOWNHOUSE, LOT 6 TO 10, DORCHESTER ROAD, CITY OF NIAGARA FALLS

Drawn by: Checked by: Project No.: 2022/11/01 Drawing No.: A07

2 RIGHT SIDE ELEVATION 3/16" = 1'-0"





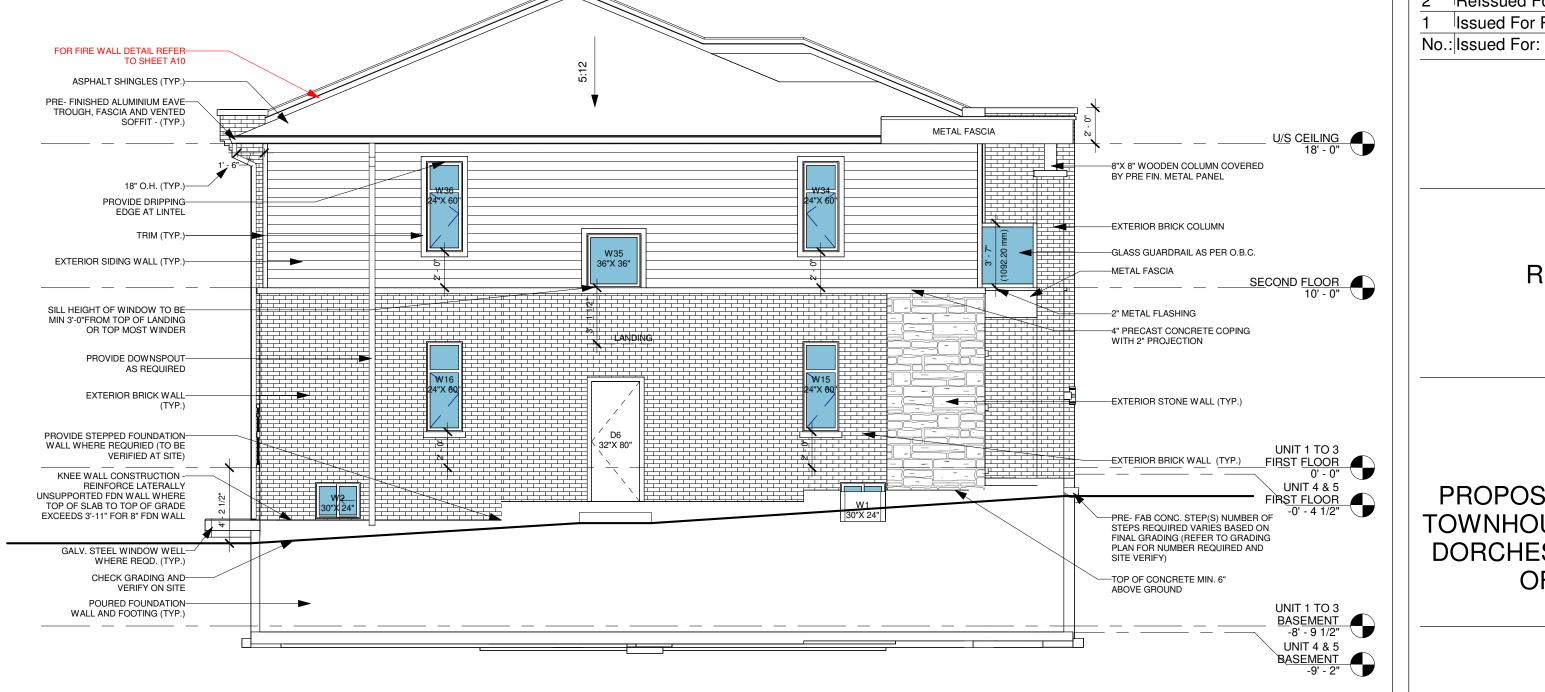
 $\frac{1}{3/16"} = 1'-0"$



LEFT SIDE OPENING CALCULATION				
%UNPROTECTED OPENING	DATA			
1. WALL AREA	843.34 SQFT			
2. LIMITING DISTANCE	4'-11 1/4" (1.50 M)			
3. ALLOWABLE OPENINGS	67.47 SQFT (8%)			
4. PROVIDED OPENINGS	65.73 SQFT (7.79%)			

FOR GARAGE, BASEMENT, FF AND PORCH GRADING LEVEL REFER TO GRADING PLAN. IN SITUATION OF DISCREPANCY BETWEEN ARCHITECTURAL DRAWING SET AND CIVIL SET, FOLLOW THE CIVIL SET(GRADING PLAN)

WINDOW SUPPLIER TO ENSURE DOORS & WINDOWS ARE AS PER OBC STANDARD INCLUDING MINIMUM OPENABLE OPENINGS



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ONTARIO BUILDING CODE. NILAMRAJ (RAJ) PATEL NAME SIGNATURE

EXEMPT UNDER DIVISION C - 3.2.4.1 OF THE 2012 ONTARIO BUILDING CODE. RPDS

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REAR & LEFT SIDE ELEVATION

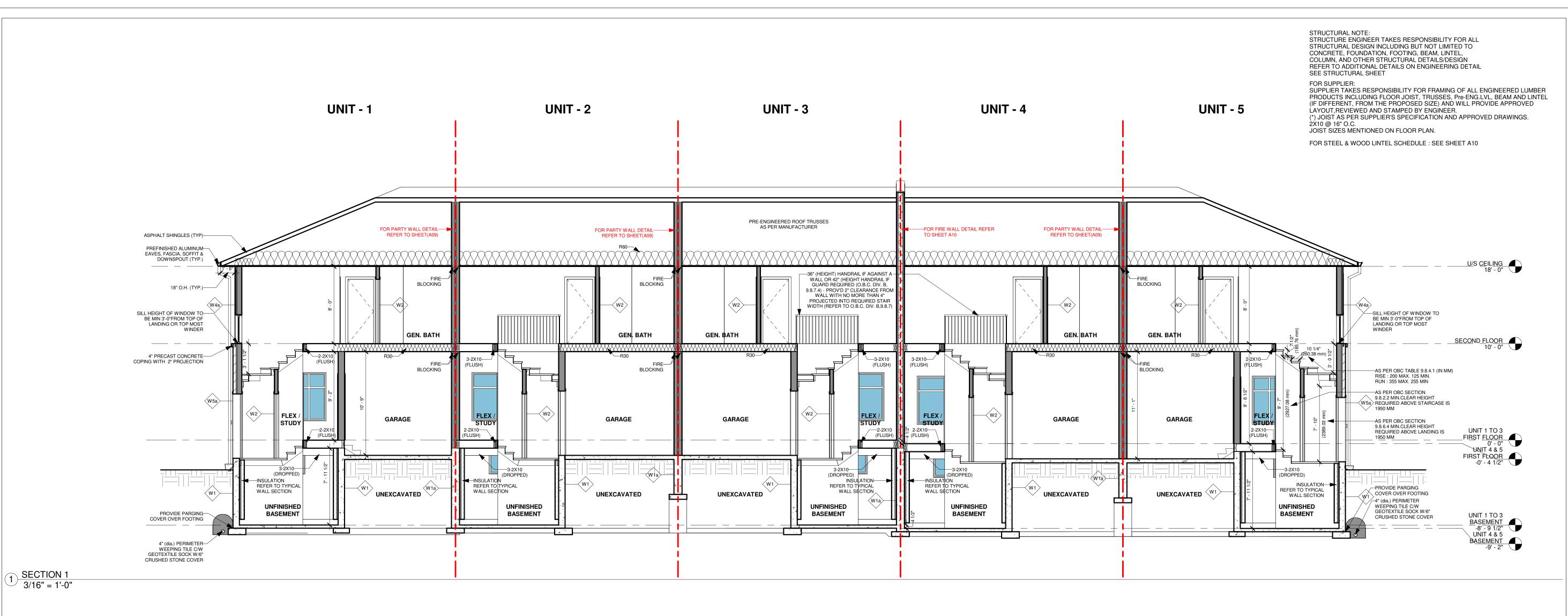
Project:

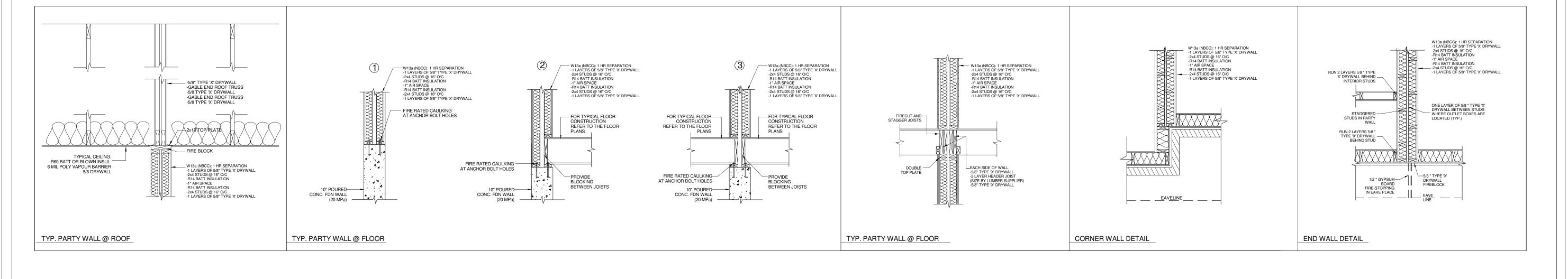
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PROPOSED TWO STOREY TOWNHOUSE, LOT 6 TO 10, DORCHESTER ROAD, CITY OF NIAGARA FALLS

Scale: Drawn by: Checked by: Project No.: 2022/11/01 Drawing No.: A08

2 LEFT SIDE ELEVATION
3/16" = 1'-0"





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NILAMRAJ (RAJ) PATEL NAME SIGNATURE

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Drawing Title:

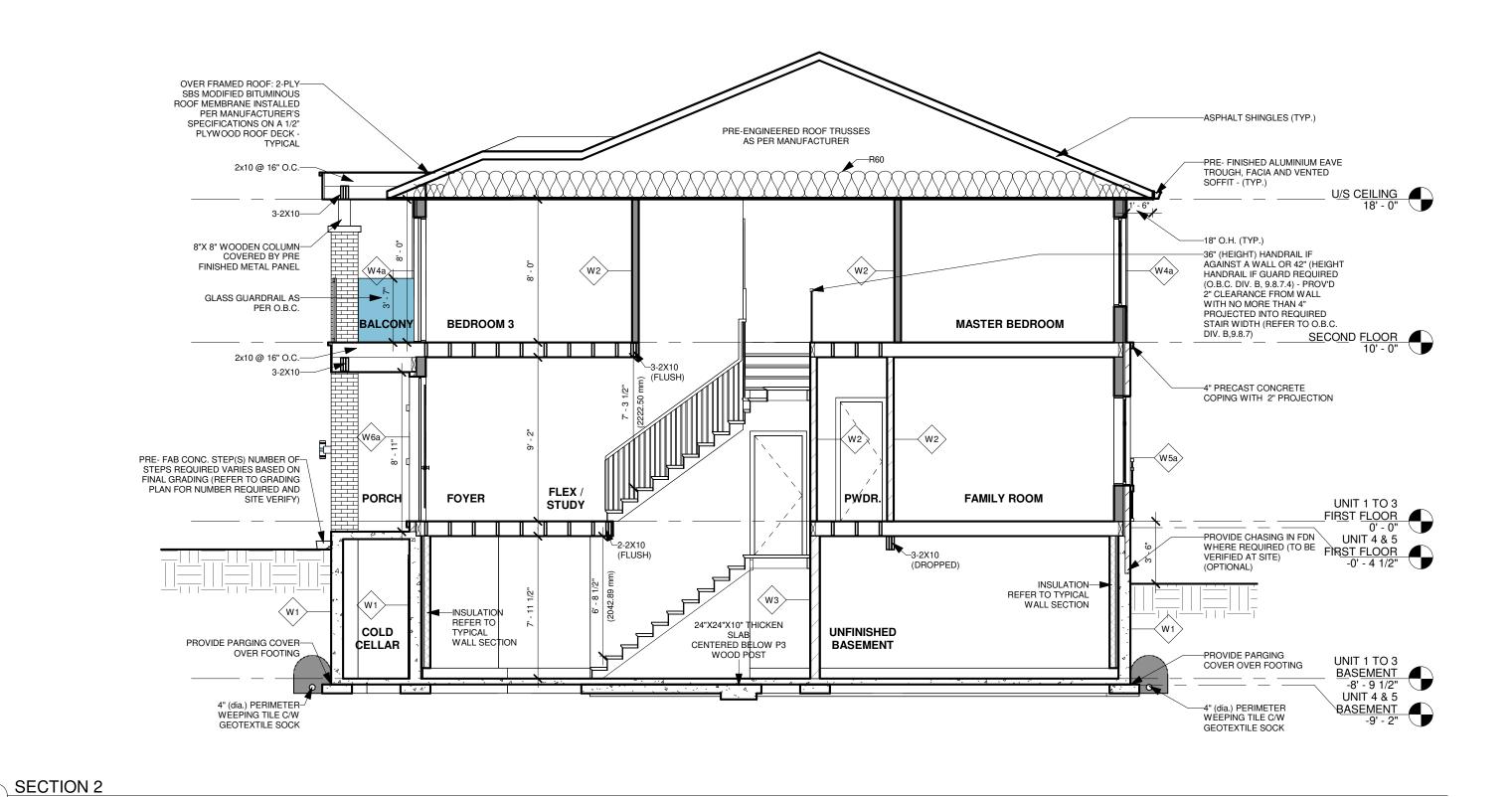
HOUSE SECTION & PARTY WALL DETAILS

Project:

KOLE

PROPOSED TWO STOREY TOWNHOUSE, LOT 6 TO 10, DORCHESTER ROAD, CITY OF NIAGARA FALLS

Scale: Drawn by: Checked by: Project No.: Date: 2022/11/01 Drawing No.: A09



STEEL LINTEL SCHEDULE FOR STEEL BEAMS SUPPORTING MASONARY VENEER O.B.C. 9.20.5.2 (C) SECTION 2 3/4" BRICK 3 1/2" BRICK 4" STONE W 6 x 15 13'-11" 13'-5" 12'-11" W 6 x 20 15'-4" 14'-10" 14'-2" 17'-3" 16'-8" 15'-10" W 8 x 18 18'-3" 17'-7" W 8 x 21 16'-9"

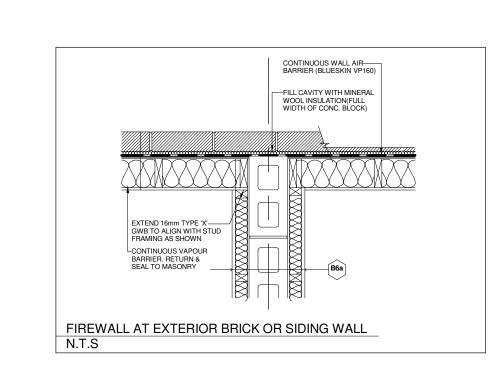
18'-9"

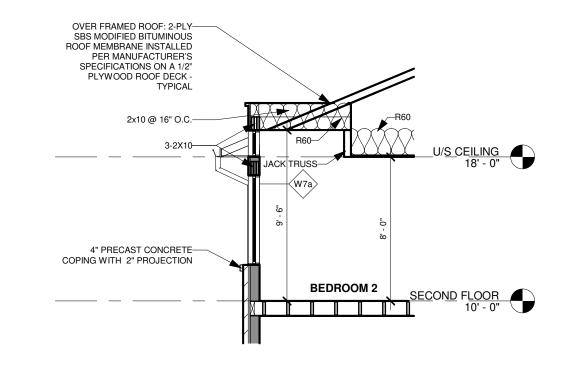
18'-0"

17'-2"

¹/₃/16" = 1'-0"

W 8 x 24





2 OVER FRAMING DETAIL
3/16" = 1'-0"

LINTEL SUPPORTING		MAXIMUM SPAN, m.					
	LINTEL SIZE			TERIOR WA			INTERIOR WALLS
SUFFORTING		SF	PECIFIED	SNOW L	OAD, kPa	a	
		1.0	1.5	2.0	2.5	3.0	VV/LLO
LIMITED	2 - 1 1/2 x 3 1/2 (L1-2 - 2 x 4)		1				4' - 2"
ATTIC	2 - 1 1/2 x 5 1/2 (L2-2 - 2 x 6)						6' - 4"
STORAGE	2 - 1 1/2 x 7 1/4 (L3-2 - 2 x 8)						7' - 9"
AND	2 - 1 1/2 x 9 1/4 (L4-2 - 2 x 10)						9' - 5"
CEILING	2 - 1 1/2 x 11 1/4 (L5-2 - 2 x 12)						11' - 0"
ROOF AND	2 - 1 1/2 x 3 1/2 (L1-2 - 2 x 4)	8' - 4"	7' - 4"	6' - 8"	6' - 2"	5' - 10"	6' - 2"
CEILING ONLY	2 - 1 1/2 x 5 1/2 (L2-2 - 2 x 6)	13' - 1"	11' - 6"	10' - 5"	9' - 9"	9' - 1"	9' - 9"
(TRIBUTARY	2 - 1 1/2 x 7 1/4 (L3-2 - 2 x 8)	17' - 4"	15' - 2"	13' - 9"	12' - 9"	12' - 0"	12' - 9"
WIDTH OF 0.6 M	2 - 1 1/2 x 9 1/4 (L4-2 - 2 x 10)	20' - 11"	18' - 11"	17' - 6"	16' - 3"	15' - 4"	16' - 3"
MAXIMUM) ROOF AND	2 - 1 1/2 x 11 1/4 (L5-2 - 2 x 12)	24' - 2"	21' - 11"	20' - 4"	19' - 3"	18' - 5"	19' - 3"
CEILING	2 - 1 1/2 x 3 1/2 (L1-2 - 2 x 4)	4' - 2"	3' - 8"	3' - 4"	3' - 1"	2' - 10"	3' - 1"
ONLY	2 - 1 1/2 x 5 1/2 (L2-2 - 2 x 6)	6' - 4"	5' - 5"	4' - 10"	4' - 5"	4' - 1"	4' - 5"
(TRIBUTARY WITH	2 - 1 1/2 x 7 1/4 (L3-2 - 2 x 8)	7' - 9"	6' - 8"	5' - 11"	5' - 5"	5' - 0"	5' - 5"
OF 4.9 M	2 - 1 1/2 x 9 1/4 (L4-2 - 2 x 10)	9' - 5"	8' - 1"	7' - 3"	6' - 7"	6' - 0"	6' - 7"
MAXIMUM)	2 - 1 1/2 x 11 1/4 (L5-2 - 2 x 12)	11' - 0"	9' - 5"	8' - 5"	7' - 8"	6' - 10"	7' - 8"
,	2 - 1 1/2 x 3 1/2 (L1-2 - 2 x 4)	3' - 5"	3' - 2"	2' - 11"	2' - 9"	2' - 7"	2' - 5"
ROOF,	2 - 1 1/2 x 5 1/2 (L2-2 - 2 x 6)	4' - 11"	4' - 6"	4' - 2"	3' - 11"	3' - 9"	3' - 4"
CEILING,	2 - 1 1/2 x 7 1/4 (L3-2 - 2 x 8)	6' - 0"	5' - 6"	5' - 1"	4' - 9"	4' - 5"	3' - 11"
AND 1	2 - 1 1/2 x 9 1/4 (L4-2 - 2 x 10)	7' - 3"	6' - 8"	6' - 2"	5' - 8"	5' - 3"	4' - 9"
STOREY	2 - 1 1/2 x 11 1/4 (L5-2 - 2 x 12)	8' - 6"	7' - 9"	7' - 1"	6' - 5"	5' - 11"	5' - 5"
ROOF,	2 - 1 1/2 x 3 1/2 (L1-2 - 2 x 4)	3' - 1"	2' - 11"	2' - 9"	2' - 7"	2' - 6"	2' - 1"
CEILING	2 - 1 1/2 x 5 1/2 (L2-2 - 2 x 6)	4' - 5"	4' - 2"	3' - 11"	3' - 9"	3' - 6"	2' - 11"
AND 2	2 - 1 1/2 x 7 1/4 (L3-2 - 2 x 8)	5' - 4"	5' - 0"	4' - 9"	4' - 5"	4' - 1"	3' - 5"
STOREYS	2 - 1 1/2 x 9 1/4 (L4-2 - 2 x 10)	6' - 6"	6' - 2"	5' - 8"	5' - 3"	4' - 11"	4' - 2"
OTONETO	2 - 1 1/2 x 11 1/4 (L5-2 - 2 x 12)	7' - 7"	6' - 11"	6' - 5"	6' - 0"	5' - 7"	4' - 9"
ROOF,	2 - 1 1/2 x 3 1/2 (L1-2 - 2 x 4)	2' - 11"	2' - 9"	2' - 8"	2' - 6"	2' - 5"	1' - 11"
CEILING	2 - 1 1/2 x 5 1/2 (L2-2 - 2 x 6)	4' - 1"	3' - 11"	3' - 9"	3' - 7"	3' - 4"	2' - 8"
AND 3	2 - 1 1/2 x 7 1/4 (L3-2 - 2 x 8)	5' - 0"	4' - 9"	4' - 5"	4' - 2"	4' - 0"	3' - 2"
STOREYS	2 - 1 1/2 x 9 1/4 (L4-2 - 2 x 10)	6' - 1"	5' - 8"	5' - 4"	5' - 0"	4' - 9"	3' - 10"
	2 - 1 1/2 x 11 1/4 (L5-2 - 2 x 12)	6' - 11"	6' - 5"	6' - 0"	5' - 9"	5' - 5"	4' - 5"

WOOD LINTEL SCHEDULE				
	MIN. ANGLE SIZE			
L1	2-2X4			
L2	2 - 2 X 6			
L3	2 - 2 X 8			
L4	2 - 2 X 10			
L5	2 - 2 X 12			

		MAX. ALLOWABLE SPAN				
	MIN. ANGLE SIZE	FOR BRICK (2 3/4")	FOR BRICK (3 1/2")	FOR STONE		
SL1	L-3 1/2" x 3 1/2" x 1/4"	8'-6" OR LESS	8'-1" OR LESS	7'-9" OR LESS		
SL2	L-4" x 3 1/2" x 1/4"	9'-2"	8'-9"	8'-2"		
SL3	L- 4 7/8" x 3 1/2" x 5/16"	11'-5"	10'-10"	10'-1"		
SL4	L- 4 7/8" x 3 1/2" x 3/8"	11'-11"	11'-5"	10"-8"		
SL5	L- 4 7/8" x 3 1/2" x 1/2"	12'-7"	11'-9"	10'-11"		
SL6	L- 5 7/8" x 3 1/2" x 3/8"	13'-4"	12'-7"	11'-8"		
SL7	L- 5 7/8" x 3 1/2" x 1/2"	14'-2"	13'-5"	12'-5"		
SL8	L- 5 7/8" x 4" x 1/2"	14'-4"	13'-6"	12'-7"		
SL9	L- 7 1/8" x 4" x 3/8"	15'-0"	14'-1"	13'-1"		
SL10	L- 7 1/8" x 4" x 13 1/2"	16'-0"	15'-1"	14'-0"		

R60 BATT INSULATION -6 MIL. POLY VAPOR BARRIER 5/8" DRYWALL -DOUBLE 2X2 WOOD STRAPPING - B6a (OBC SB-2) - 15.9 MM TYPE 'X' GYPSUM BOARD - 38 MM X 38 MM HORIZONTAL OR VERTICAL WOOD STRAPPING - FIBRE GLASS INSULATION FILLING STRAPPING SPACE - 140 MM CONCRETE BLOCK STANDARD HOLLOW (56% SOLID) LIGHTWEIGHT CONCRETE TYPE L2-20S - 38 MM X 38 MM HORIZONTAL OR VERTICAL WOOD STRAPPING - FIBRE GLASS INSULATION FILLING 2X2 WOOD STRAPPING-STRAPPING SPACE - 15.9 MM TYPE 'X' GYPSUM BOARD ACOUSTICAL SEALANT (AS REQUIRED) -2X2 WOOD STRAPPING PROV'D BLOCKING -**BETWEEN WALL PLATES** -ACOUSTICAL SEALANT FOR STUD SUPPORT (AS REQUIRED) - -5/8" TYPE 'X' DRYWALL -HEADER JOIST (SIZE BY LUMBER SUPPLIER FOR TYPICAL FLOOR -1" CONTINUOUS SEMI-RIGID FIBRE INSULATION CONSTRUCTION REFER TO TYPICAL WALL SECTION -HEADER JOIST (SIZE BY LUMBER SUPPLIER) ON SHEET A10 -5/8" TYPE 'X' DRYWALL FIREBLOCK FIRECUT AND STAGGER JOISTS └─DOUBLE 2X2 WOOD B6a (OBC SB-2) - 15.9 MM TYPÉ 'X' GYPSUM BOARD - 38 MM X 38 MM HORIZONTAL OR VERTICAL WOOD STRAPPING - FIBRE GLASS INSULATION FILLING STRAPPING SPACE - 140 MM CONCRETE BLOCK 15M VERTICAL BARS AT 32" c/c FILL CORES SOLID AT REBAR STANDARD HOLLOW (56% SOLID) PLACEMENT AND PROVIDE LIGHTWEIGHT CONCRETE TYPE L2-20S DUROWALL HORIZONTAL - 38 MM X 38 MM HORIZONTAL OR VERTICAL WOOD STRAPPING REINFORCING EVERY 2ND - FIBRE GLASS INSULATION FILLING COURSE TYP STRAPPING SPACE - 15.9 MM TYPE 'X' GYPSUM BOARD 2X2 WOOD STRAPPING -ACOUSTICAL SEALANT −2X2 WOOD (AS REQUIRED) STRAPPING PROV'D BLOCKING -**BETWEEN WALL PLATES** FOR STUD SUPPORT -ACOUSTICAL SEALANT (AS REQUIRED) FOR TYPICAL FLOOR _ CONSTRUCTION REFER -5/8" TYPE 'X' DRYWALL -HEADER JOIST (SIZE BY LUMBER SUPPLIER TO TYPICAL WALL SECTION -1" CONTINUOUS SEMI-RIGID FIBRE INSULATION ON SHEET A10 -HEADER JOIST (SIZE BY LUMBER SUPPLIER) FIRECUT AND STAGGER -5/8" TYPE 'X' DRYWALL FIREBLOCK JOISTS INSU. AROUND INT. PERIMETER OF WALLS BELOW GRADE: R10 INSUL. (2" RIGID OR APPROVED EQUAL) 10" POURED CONC. FDN -CONT. WITH NO THERMAL BREAK, AND WALL (20 MPa) - 2x4 STUDS @ 16" O/C W/ R12 (MIN.) BATT (OR APPROVED EQUAL) - 1/2" DRYWALL FINISH ON INT. SIDE R20 (MIN.) BLANKET INSUL. (OR APPROVÉD EQUAL) BELOW GRADE - CONT. WITH NO THERMAL BREAK ALL INSUL. S/B CONT. FROM U/S JOISTS TO NOT MORE THAN 8" ABOVE FIN. SLAB - 6 ML VAPOUR BARRIER (AS PER O.B.C. DIV. BOTH OPTION 'A' AND 'B' ARE INTERCHANGEABLE UNLESS SPECIFICALLY
NOTED ON THE FLOOR PLANS AND ALL JOINTS SHOULD BE ADEQUATELY SEALED POURED CONC. FTG. REINF. W/2-15M CONT. ALL AROUND @MID-DEPTH OF STRIP 4" CONC. SLAB ON 200mil COMPACTED FOOTING SYSTEM TO BEAR ON GRANULAR BASE ON UNDISTURBED SOIL UNDISTURBED SOIL W/CAPACITY 150KPA MIN. (TYP) UNDISTURBED SOIL

STRUCTURAL NOTE:

SEE STRUCTURAL SHEET

FLASHING

ROOF SHEATING

- ROOF TRUSS BY

MANUFACTURER

TRUSS

PARAPET CAP-

CONT. VAPOUR BARRIER.

FOAM INSULATION

RETURN & SEAL TO SPRAY

STRUCTURE ENGINEER TAKES RESPONSIBILITY FOR ALL

REFER TO ADDITIONAL DETAILS ON ENGINEERING DETAIL

SUPPLIER TAKES RESPONSIBILITY FOR FRAMING OF ALL ENGINEERED LUMBER

PRODUCTS INCLUDING FLOOR JOIST, TRUSSES, Pre-ENG.LVL, BEAM AND LINTEL

(IF DIFFERENT, FROM THE PROPOSED SIZE) AND WILL PROVIDE APPROVED

(*) JOIST AS PER SUPPLIER'S SPECIFICATION AND APPROVED DRAWINGS.

STRUCTURAL DESIGN INCLUDING BUT NOT LIMITED TO

CONCRETE, FOUNDATION, FOOTING, BEAM, LINTEL, COLUMN, AND OTHER STRUCTURAL DETAILS/DESIGN

LAYOUT, REVIEWED AND STAMPED BY ENGINEER.

FOR STEEL & WOOD LINTEL SCHEDULE: SEE SHEET A10

JOIST SIZES MENTIONED ON FLOOR PLAN.

Contractor and trader must check and verify all dimensions before execute the work and must report discrepancies and should not scale or measure the drawings.

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NILAMRAJ (RAJ) PATEL

NAME

SIGNATURE

BCIN

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No.: Revision: Date:

FOR REVIEW PERMIT

2 Relssued For Review 2022/11/25
1 Issued For Review 2022/11/12
No.: Issued For: Date:
Client Name:

Drawing Title:

HOUSE SECTION, LINTEL SCHEDULES, FIRE WALL DETAILS & SECTION

Pro

KOLE

PROPOSED TWO STOREY TOWNHOUSE, LOT 6 TO 10, DORCHESTER ROAD, CITY OF NIAGARA FALLS

Drawn by:

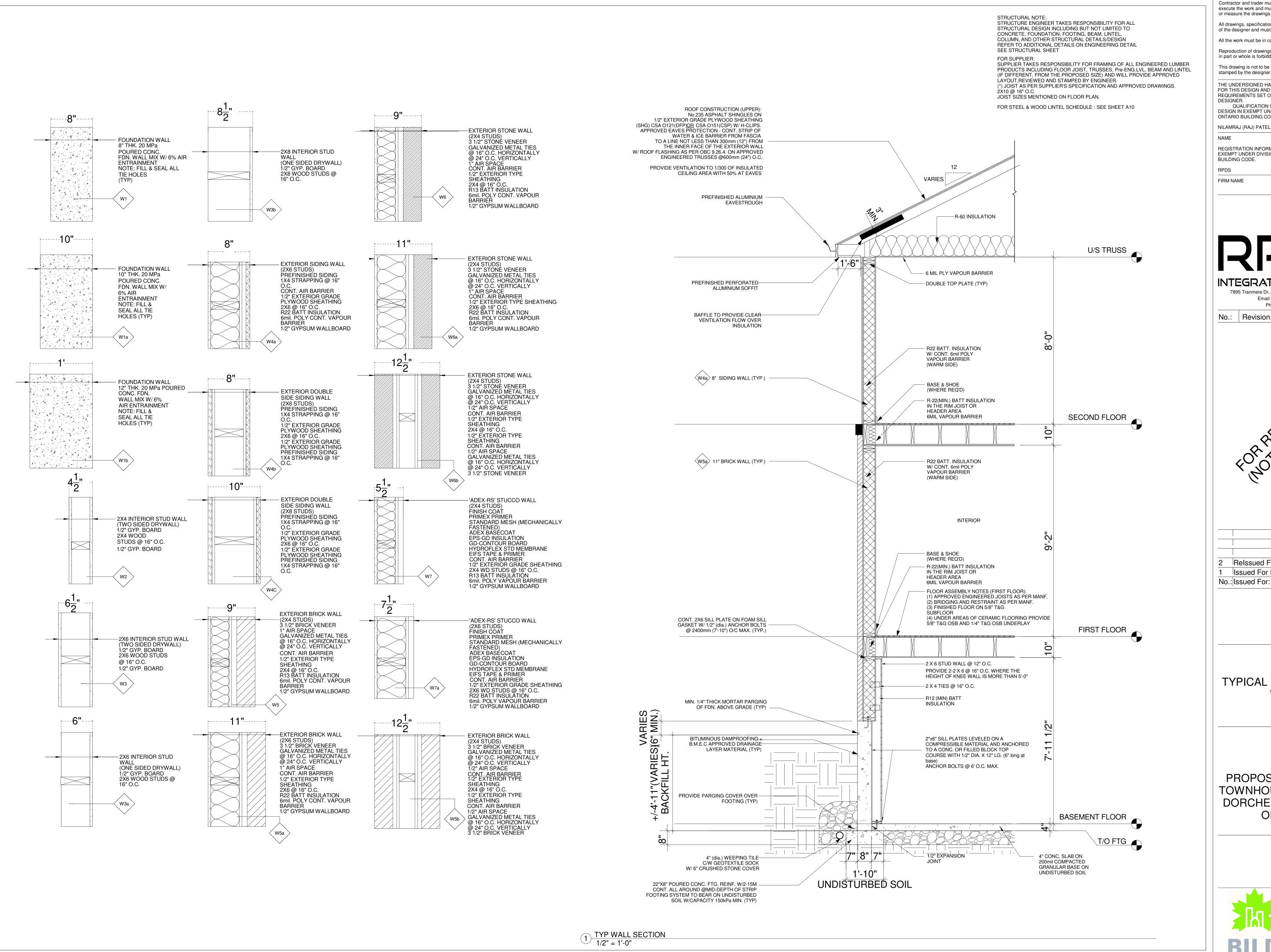
MJ
Checked by:

RP
Project No.:

Date:
2022/11/01
Drawing No.:

A10

4 FIRE WALL SECTION 1/2" = 1'-0"



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SIGNATURE BCIN REGISTRATION INFORMATION REQUIRED UNLESS THE DESIGN IS EXEMPT UNDER DIVISION C - 3.2.4.1 OF THE 2012 ONTARIO BUILDING CODE.

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Date:

Phone: 647-556-2596 No.: Revision:

2 Relssued For Review 2022/11/25 Issued For Review 2022/11/12

Client Name:

Date:

Drawing Title:

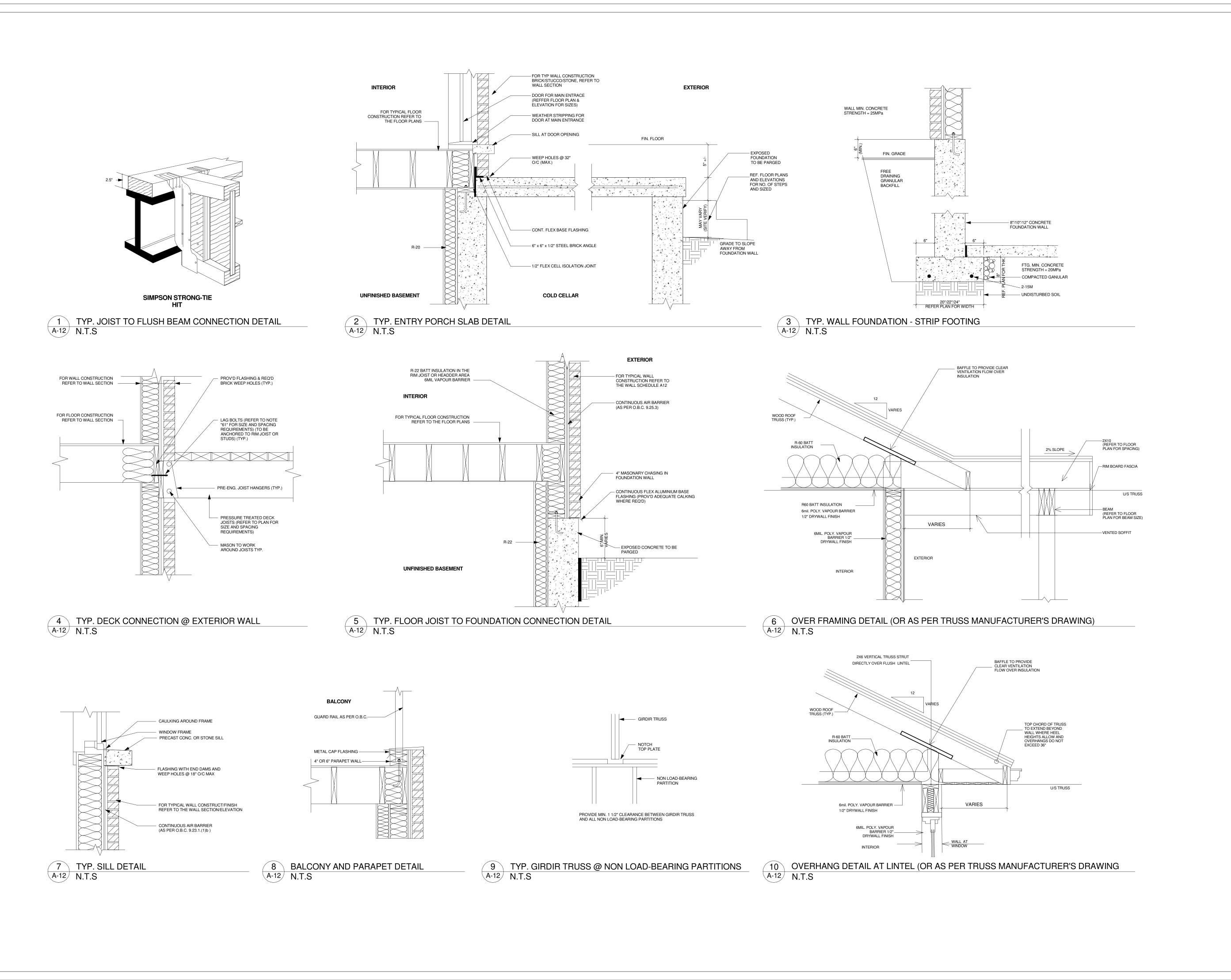
TYPICAL WALL SECTION & WALL SCHEDULE

Project:

KOLE

PROPOSED TWO STOREY TOWNHOUSE, LOT 6 TO 10, DORCHESTER ROAD, CITY OF NIAGARA FALLS

Scale: Drawn by: Checked by: Project No.: 2022/11/01 **Drawing No.: A**1



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NILAMRAJ (RAJ) PATEL
NAME SIGNATURE

EXEMPT UNDER DIVISION C - 3.2.4.1 OF THE 2012 ONTARIO BUILDING CODE.

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No.: Revision:

OR REVIEW OR PERMIT

2 Relssued For Review 2022/11/25
1 Issued For Review 2022/11/12

No.: Issued For:

Date:

Client Name:

Drawing Title:

TYPICAL DETAILS

Projec

KOLE

PROPOSED TWO STOREY TOWNHOUSE, LOT 6 TO 10, DORCHESTER ROAD, CITY OF NIAGARA FALLS

Drawn by:

MJ
Checked by:
RP
Project No.:

Date:
2022/11/01
Drawing No.:

A12

- THE TOPSOIL AND VEGETABLE MATTER IN UNEXCAVATED AREAS UNDER A BUILDING SHALL BE REMOVED. THE 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 LINDER A BUILDING AND THE CLEARANCE BETWEEN UNTREATED STRUCTURAL WOOD ELEMENTS AND THE GROUND SHALL BE NOT 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 FOUNDATIONS WALLS ENCLOSING BASEMENTS AND CRAWL SPACES SHALL BE DAMPPROOFED. WHERE HYDROSTATIC PRESSURE OCCURS, A WATERPROOFING SYSTEM IS REQUIRED

MASONRY FOUNDATION WALLS SHALL BE PARGED WITH 1/4" OF MORTAR COVED OVER THE FOOTING PRIOR TO DAMPPROOFING.

-4" 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.

WINDOW WELLS SHALL BE DRAINED TO THE FOOTING.

DOWNSPOUTS NOT DIRECTLY CONNECTED TO A STORM SEWER SHALL HAVE EXTENSIONS TO CARRY THE 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, SUMP AND ROOF DRAINAGE WILL NOT ACCUMULATE AT OR NEAR THE BUILDING AND WILL NOT ADVERSELY AFFECT ADJACENT PROPERTIES.

FOUNDATION WALLS

- TO BE POURED CONCRETE, UNIT MASONRY OR PRESERVED WOOD (SEE DRAWINGS FOR TYPE AND THICKNESS)

- DAMPPROOFING SHALL BE A HEAVY COAT OF BITUMINOUS MATERIAL.

- FOUNDATION WALL TO EXTEND MINIMUM 6" ABOVE FINISHED GRADE.

A DRAINAGE LAYER IS REQUIRED ON THE OUTSIDE OF A FOUNDATION WALL WHERE THE INTERIOR INSULATION EXTENDS MORE THAN 2'-11" BELOW EXTERIOR GRADE. A DRAINAGE LAYER SHALL CONSIST OF: - MIN. 3/4" MINERAL FIBRE INSULATION WITH MIN.

DENSITY OF 3.6LB/SF - MIN. 4" OF FREE DRAINAGE GRANULAR MATERIAL, OR - AN APPROVED SYSTEM WHICH PROVIDES EQUIVALENT

- FOUNDATION WALLS SHALL BE BRACED OR HAVE THE FLOOR JOISTS INSTALLED BEFORE BACKFILLING.

FOOTINGS

- MINIMUM 20 MPa POURED CONCRETE.

- MINIMUM 48" BELOW FINISHED GRADE.

- FOOTINGS SHALL BE FOUNDED ON NATURAL UNDISTURBED SOIL ROCK OR COMPACTED GRANULAR FILL WITH MINIMUM BEARING CAPACITY OF 75

- INCREASE FOOTING WIDTH BY 2 5/8" FOR EACH STOREY OF BRICK VENEER SUPPORTED, AND BY 5 1/8" FOR EACH STOREY OF MASONRY.

- THE PROJECTION OF AN UNREINFORCED FOOTING BEYOND THE WOULDPORTED SHALL NOT BE GREATER THAN IT THICKNESS.

STEP FOOTINGS

· VERTICAL RISE 23 5/8" MAX. FOR FIRM SOILS

15 3/4" MAX. FOR SAND OR GRAVEL

- HORIZONTAL RUN 23 5/8" MIN.

CONCRETE FLOOR SLABS

GARAGE, CARPORT AND EXTERIOR SLABS AND EXTERIOR STEPS SHALL BE 4650PSI (32MPa) CONCRETE WITH 5-8% AIR ENTRAINMENT C/W 6X6 WELDED

- MINIMUM 5" THICK, PLACED ON A MINIMUM 4" OF COARSE,

CLEAN, GRANULAR MATERIAL

- ALL FILL OTHER THAN COARSE CLEAN MATERIAL PLACED BENEATH CONCRETE SLABS SHALL BE COMPACTED TO PROVIDE UNIFORM SUPPORT.

MASONRY VENEER

- MINIMUM 2 3/4" THICK IF JOINTS ARE NOT RAKED AND 3 1/2"

THICK IF JOINTS ARE RAKED.

CAVITY AND OVER DOORS AND WINDOWS.

- MINIMUM 1" AIR SPACE TO SHEATHING. - PROVIDE WEEP HOLES @ 31 1/2" O.C. AT THE BOTTOM OF THE

- DIRECT DRAINAGE THROUGH WEEP HOLES WITH 20mil. POLY FLASHING EXTENDING MINIMUM 5 7/8" UP BEHIND THE SHEATHING

- VENEER TIES MINIMUM 0.030" THICK X 7/8" WIDE CORROSION RESISTANT STRAPS SPACED @ 23 5/8" VERTICALLY AND 15 3/4" VERTICALLY.

- FASTEN TIES WITH CORROSION RESISTANT 0.125" DIAMETER SCREWS OR SPIRAL NAILS WHICH PENETRATE AT LEAST 1 3/16" INTO STUDS.

MASONRY WALLS

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.

PROVIDE 7 1/2" SOLID MASONRY UNDER BEAMS AND COLUMNS.

MASONRY WALLS TO BE TIED TO EACH TIER OF JOISTS WITH 1 9/16" X 3/16" CORROSION RESISTANT STEEL STRAPS, KEYED MINIMUM 4" INTO MASONRY. WHEN JOISTS ARE PARALLEL TO WALL, TIES ARE TO EXTEND ACROSS AT LEAST 3 JOISTS @ 6'-7' O.C.

INSIDE BACK OF WALL TO BE PARGED AND COVERED 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 0.028in2 IN CROSS SECTION AREA, SPACED 7 7/8" VERTICALLY AND 2'-11" HORIZONTALLY, WITH JOINTS COMPLETELY FILLED WITH MORTAR.

MASONRY OVER OPENINGS SHALL BE SUPPORTED ON CORROSION RESISTANT OR PRIME PAINTED STEEL LINTELS WITH A MINIMUM OF 5 7/8" END BEARING.

WOOD FRAME CONSTRUCTION

IDENTIFIED BY A GRADE STAMP.

- ALL LUMBER SHALL BE SPRUCE-PINE-FIR No. 1&2, AND SHALL BE

MAXIMUM MOISTURE CONTENT 19% AT TIME OF INSTALLATION.

WOOD FRAMING MEMBERS WHICH ARE SUPPORTED ON CONCRETE IN DIRECT CONTACT WITH SOIL SHALL BE SEPARATED FROM THE CONCRETE WITH 6mil. POLYETHYLENE.

WALLS

EXTERIOR WALLS SHALL CONSIST OF: - CLADDING

CONT. AIR BARRIER - 7/16" EXTERIOR GRADE SHEATHING

- 2X6 STUDS @ 16 O.C. - 2X6 BOTTOM PLATE AND DOUBLE 2X6 TOP PLATE

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 WALLBOARD

SEE FLOOR PLANS FOR FLOOR JOIST SIZE AND SPACING.

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

2X2 CROSS BRIDGING REQUIRED NOT MORE THAN 6'-11" FROM EACH SUPPORT AND FROM OTHER ROWS OF BRIDGING.

JOISTS SHALL BE SUPPORTED ON JOIST HANGERS AT ALL

LUSH BEAMS, TRIMMERS, AND HEADERS.

JOISTS LOCATED UNDER PARALLEL NON-LOADBEARING PARTITIONS SHALL BE DOUBLED.

ROOFING

FASTENERS FOR ROOFING SHALL BE CORROSION RESISTANT. ROOFING NAILS SHALL PENETRATE THROUGH OR AT LEAST 1/2" INTO ROOF SHEATHING.

EVERY ASPHALT SHINGLE SHALL BE FASTENED WITH AT LEAST 4 NAILS.

EAVES PROTECTION SHALL EXTEND 2'-6" FROM THE INSIDE FACE OF THE EXTERIOR WALL, AND SHALL CONSIST OF TYPE M OR TYPE S ROLL BOOFING LAID MINIMUM 4" HEAD AND END LAPS CEMENTED TOGETHER, OR GLASS FIBRE OR POLYESTER FIBRE COATED BASE SHEETS OR SELF SEALING COMPOSITE MEMBRANES CONSISTING OF MODIFIED BITUMINOUS COATED MATERIAL. EAVE PROTECTION IS NOT REQUIRED FOR UNHEATED BUILDING.

OPEN VALLEYS SHALL BE FLASHED WITH 2 LAYERS OF ROLL ROOFING, OR 1 LAYER OF SHEET METAL MINIMUM 23 5/8" WIDE.

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.

INSULATION & WEATHERPROOFING

- AS PER OBC SB-12 -PACKAGE A1

CEILING WITH ATTIC R60 ROOF WITHOUT ATTIC R31 **EXTERIOR WALL R22 FOUNDATION WALLR20 EXPOSED FLOORR31** SLABS ON GRADE R10 (UNHEATED) R 10 (HEATED)

AIR FROM THE EXTERIOR.

SUPPLY DUCTS IN UNHEATED SPACESR12 INSULATION SHALL BE PROTECTED WITH GYPSUM WALLBOARD OR AN EQUIVALENT INTERIOR FINISH, EXCEPT FOR UNFINISHED BASEMENTS WHERE 6mil. POLY IS SUFFICIENT FOR FIBREGLASS TYPE INSULATIONS.

DUCTS PASSING THROUGH UNHEATED SPACE SHALL BE MADE AIRTIGHT WITH TAPE OR SEALANT.

CAULKING SHALL BE PROVIDED FOR ALL EXTERIOR DOORS AND WINDOWS BETWEEN THE FRAME AND THE EXTERIOR CLADDING.

WEATHERSTRIPPING SHALL BE PROVIDED ON ALL DOORS AND

ACCESS HATCHES TO THE EXTERIOR, EXCEPT DOORS FROM A

GARAGE TO THE EXTERIOR. 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

DOORS AND WINDOWS

- EVERY FLOOR LEVEL CONTAINING A BEDROOM AND NOT SERVED BY AN EXTERIOR DOOR SHALL CONTAIN AT LEAST 1 WINDOW HAVING AN UNOBSTRUCTED OPEN AREA OF 3.8 SF AND NO DIMENSION LESS THAN 15", WHICH IS

OPERABLE FROM THE INSIDE WITHOUT TOOLS. - EXTERIOR HOUSE DOORS AND WINDOWS WITHIN 6'-7" FROM GRADE SHALL BE CONSTRUCTED TO RESIST FORCED ENTRY. DOORS SHALL HAVE A DEADBOLT LOCK.

THE PRINCIPAL ENTRY DOOR SHALL HAVE EITHER A DOOR VIEWER, TRANSPLANT GLAZING OR A SIDELIGHT.

COLUMNS, BEAMS & LINTELS

SUPPORTED MEMBER.

REFER TO DATA SHEET BY LVL.

- 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 BEAM.

- STEEL COLUMNS TO HAVE A MINIMUM OUTSIDE DIAMETER OF 3 1/2" AND MINIMUM WALL THICKNESS OF 1/4".

- WOOD COLUMNS FOR CARPORTS AND GARAGES SHALL BE MINIMUM 3 1/2" X 3 1/2" IN ALL OTHER CASES EITHER 5 1/2" X 5 1/2" OR 7 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

- MASONRY COLUMNS SHALL BE MINIMUM OF 1 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.

NOTCHING & DRILLING OF TRUSSES, JOISTS, RAFTERS

SMOKE AND CARBON MONOXIDE DETECTORS/ALARMS

AT LEAST ONE SMOKE ALARM SHALL BE INSTALLED ON OR NEAR THE CEILING ON EACH FLOOR AND BASEMENT LEVEL 2'-11" OR MORE ABOVE AN ADJACENT LEVEL.

- SMOKE ALARMS SHALL BE INTERCONNECTED IN ELECTRICAL CIRCUIT WITH BATTERY BACKUP, AND LOCATED SUCH THAT ONE IS WITHIN 16'-5" OF EVERY BEDROOM DOOR, IN EVERY BEDROOM, AND NO MORE THAN 49'-3" TRAVEL DISTANCE FROM ANY POINT ON A FLOOR. SMOKE ALARMS SHALL HAVE A VISUAL SIGNALLING COMPONENT CONFORMING TO THE REQUIREMENTS OF NFPA 72 "NATIONAL FIRE ALARM AND SIGNALLING CODE"

- A CARBON MONOXIDE DETECTOR SHALL BE INSTALLED ON OR NEAR THE CEILING IN EVERY ROOM CONTAINING A SOLID FUEL BURNING FIREPLACES OR STOVE.

GARAGE GASPROOFING

- THE WALLS AND CEILING OF AN ATTACHED GARAGE SHALL BE CONSTRUCTED AND SEALED SO AS TO PROVIDE AN EFFECTIVE BARRIER TO EXHAUST FUMES.

- ALL PLUMBING AND OTHER PENETRATIONS THROUGH THE WALLS AND CEILING SHALL BE CAULKED

- DOORS BETWEEN DWELLING AND ATTACHED GARAGE MAY NOT OPEN INTO A BEDROOM AND SHALL BE WEATHERSTRIPPED AND HAVE A SELF-CLOSER

ROOF & CEILINGS

- SEE DRAWING A-03 FOR RAFTER, ROOF JOIST AND CEILING JOIST SIZE AND REQUIREMENTS.

- HIP AND VALLEY RAFTER SHALL BE 2" DEEPER THAN COMMON

- 2X4 COLLAR TIES @ RAFTER SPACING WITH 1X4 CONTINUOUS

BRACE AT MID SPAN IF COLLAR EXCEEDS 7'-10" IN LENGTH. - SEE DRAWING A-03 FOR ROOF SHEATHING REQUIREMENTS.

ACCESS TO ATTICS AND CRAWL SPACES

- ACCESS HATCH MINIMUM 19 3/4" X 2'-4" TO BE PROVIDED TO EVERY CRAWL SPACE AND EVERY ROOF SPACE WHICH IS 108 SF OR MORE IN AREA AND MORE THAN 23 5/8" IN

STAIRS

WHICH THEY OCCUR.

- MINIMUM RISE 125 MM - MINIMUM RUN 255 MM - MINIMUM HEADROOM 1950 MM

- MINIMUM WIDTH 860 MM TAPERED STAIRS SHALL HAVE A RUN THAT a) IS NOT LESS THAN 150 MM AT THE NARROW END OF THE TREAD, & b) COMPLIES WITH THE DIMENSIONS FOR RECTANGULAR TREADS SPECIFIED IN TABLE 9.8.4.1. WHEN MEASURED AT A POINT 300 MM

(OBC TABLE 9.8.4.1)

(OBC 9.8.6.4)

(OBC 9.8.2.2)

(OBC 9.8.4.5A)

OVER 13/16" THICK

FROM THE CENTRE LINE OF THE INSIDE HANDRAIL - WINDERS (OBC 9.8.4.5) WHICH CONVERGE TO A POINT IN STAIRS MUST TURN THROUGH AN ANGLE OF NO MORE THAN 90(deg.), WITH NO LESS THAN 30(deg.) OR MORE THAN 45(deg.) PER TREAD. SETS OF WINDERS MUST BE SEPARATED BY 3'-11"

ALONG THE RUN OF THE STAIR. (OBC 9.8.6.3) - A LANDING SHALL BE a) AT LEAST AS WIDE AS THE WIDTH OF THE STAIR OR RAMP IN WHICH THEY OCCUR, AND b) AT LEAST AS LONG AS THE WIDTH OF THE STAIR OR RAMP IN

- THE CLEAR HEIGHT OVER LANDINGS SHALL BE NOT LESS THAN 1950 mm STEPS IN SHALL BE NOT LESS THAN 1950 mm STEPS IN SPIRAL STAIRS SHALL BE NOT LESS THAN 1980 mm

- 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 1/2" HIGH. EXTERIOR GUARDS SHALL BE 3'-6 1/8" HIGH WHERE HEIGHT ABOVE ADJACENT SURFACES EXCEEDS 5'-11"

GUARDS SHALL HAVE NO OPENINGS GREATER THAN 4" AND NO MEMBER BETWEEN 4" AND 2'-11 1/2" THAT WILL FACILITATE

PLUMBING - SEE FLOOR PLANS

- 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

NATURAL VENTILATION

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.

ROOF VENTS SHALL BE UNIFORMLY DISTRIBUTED AND DESIGNED TO PREVENT THE ENTRY OF RAIN, SNOW OR INSECTS.

MINIMUM NATURAL VENTILATION AREAS, WHERE MECHANICAL VENTILATION IS NOT PROVIDED, ARE: BATHROOMS 0.97 SF

UNHEATED CRAWL SPACES SHALL BE PROVIDED WITH 1.1 SF

OTHER ROOMS 3 SF UNFINISHED BASEMENTS 0.2% OF FLOOR AREA

EXTERIOR WALLS

OF VENTILATION FOR EACH 538 SF.

- NO WINDOWS OR OTHER UNPROTECTED OPENINGS ARE PERMITTED IN EXTERIOR WALLS LESS THAN 3'-11" FROM

- 5/8" FIRE RATED DRYWALL SHALL BE INSTALLED ON THE INSIDE FACE OF ATTACHED GARAGE EXTERIOR WALLS AND GABLE ENDS OF ROOFS WHICH ARE LESS THAN 3'-11" FROM PROPERTY LINES.

- NON COMBUSTIBLE CLADDING SHALL BE INSTALLED ON ALL EXTERIOR WALLS LESS THAN 23 5/8" FROM PROPERTY

CERAMIC TILE

WHEN CERAMIC TILE IS APPLIED TO A MORTAR BED WITH 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 OR CROSS BRIDGING.

- AN EXTERIOR LIGHT CONTROLLED BY AN INTERIOR SWITCH

- 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 LIGHT IN BEDROOMS AND LIVING ROOMS

UNFINISHED BASEMENT SHALL BE CONTROLLED BY A 3 WAY SWITCH AT THE HEAD AND FOOT OF THE STAIRS.

- STAIRS SHALL BE LIGHTED, AND EXCEPT WHERE SERVING AN

- BASEMENTS REQUIRE A LIGHT FOR EACH 323 SF, CONTROLLED BY A SWITCH AT THE HEAD OF THE STAIRS.

MECHANICAL VENTILATION

IS REQUIRED AT EVERY ENTRANCE.

- A MECHANICAL VENTILATION SYSTEM IS REQUIRED WITH A TOTAL CAPACITY AT LEAST EQUAL TO THE SUM OF: - 10 CEM EACH FOR BASEMENT AND MASTER BEDROOM - 5 CFM FOR EACH OTHER ROOM

- A PRINCIPLE 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 REQUIRE 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 ARE INSTALLED.

- SUPPLY AIR INTAKES SHALL BE LOCATED SO AS TO AVOID CONTAMINATION FROM EXHAUST OUTLETS.

FASTENERS FOR SHEATHING AND SUBFLOORING

MINIMUM LENGTH FOR FASTENERS, in NUMBER OR MAXIMUM FI FMFNT COMMON SPACING OF THREAD ROOFING OR STAPLES | FASTENERS **SPIRAL** NAILS NAILS OR NAILS SCREWS 2 PER SUPPORT BOARD LUMBER 7 1/4" OR LESS WIDE 1 3/4" N/A 2 PER SUPPORT 1 3/4" N/A BOARD LUMBER MORE THAN 7 1/4" WIDE FIBREBOARD SHEATHING UP TO 1/2" 1 3/4" N/A GYPSUM SHEATHING UP TO 1/2" THICK N/A 1 3/4" ALONG EDGES AND 11 3/4" O/C PLYWOOD, OSB OR WAFERBOARD UP TO 1 3/4" N/A 1 1/2" NTERMEDIATE SUPPORTS PLYWOOD, OSB OR WAFERBOARD FROM 1 3/4" N/A 3/8" TO 13/16" THICK PLYWOOD, OSB, OR WAFERBOARD N/A N/A 2 1/4"

DRAWING NOTES

1. FINISHED FLOOR ELEVATION 0'-0" SHOWN ON ARCHITECTURAL DRAWINGS REFERS TO TOP OF PLYWOOD SUBFLOORING, AND REFERENCE SURVEYOR OF RECORD DOCUMENTS FOR ELEVATION ABOVE SEA LEVEL.

2. WHEN REFERENCE IS MADE TO A PARTICULAR MANUFACTURED SYSTEM, ALL PARTS AND MATERIALS APPLICABLE SHALL BE SUPPLIED AND INSTALLED.

3. IF THE CONTRACTOR OBSERVES ANY ERRORS, DISCREPANCIES, OR OMISSIONS IN THE CONTRACT DOCUMENTS, HE SHALL PROMPTLY NOTIFY THE LICENSED DESIGNER. THE CONTRACTOR PROCEEDS WITH WORK AFFECTED BY SUCH ERRORS, DISCREPANCIES, OR OMISSIONS WITHOUT RECEIVING CLARIFICATION, HE DOES SO AT HIS OWN SUCH CIRCUMSTANCES MADE BY THE CONTRACTOR, PRIOR TO APPROVAL BY RISK. ANY ADJUSTMENTS INVOLVING THE LICENSED DESIGNER, SHALL BE AT THE CONTRACTOR'S RISK AND ANY COMPLICATIONS OR DISPUTES ARISING THEREFROM SHALL BE AT THE CONTRACTOR'S EXPENSE.

4. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT USE OF A KEY, TOOL OR SPECIAL KNOWLEDGE.

5. FIRE DEPARTMENT ACCESS AND WATER TO SITE SHALL BE MAINTAINED DURING CONSTRUCTION.

6. MAINTAIN MINIMUM 6" VERTICAL DISTANCE BETWEEN FINISH FLOOR AND ADJACENT GRADES, SLOPE MIN. 2%. 7. GLAZING IN DOORS, ADJACENT TO DOORS, AND CLOSER THAN 18" TO FINISH FLOOR SHALL BE TEMPERED.

8. THE CONTRACTOR SHALL PROVIDE ALL WORK NECESSARY TO COMPLETE A WEATHER TIGHT, FINISHED PRODUCT.

9. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.

10. CONTRACTORS SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE

11. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES BEFORE STARTING WORK.

12. THE STARTING OF WORK BY ANY CONTRACTOR OR SUB-CONTRACTOR SHALL BE CONSIDERED PRIMA FACIE EVIDENCE THAT HE HAS INSPECTED AND ACCEPTED ALL CONDITIONS INVOLVED IN HIS WORK AND FINDS THEM SATISFACTORY.

13. ALL COMPONENTS, EQUIPMENT, PRODUCTS SHALL BE INSTALLED PER LICENSED DESIGNER AND MANUFACTURERS PRINTED INSTRUCTIONS.

14. AT THE JUNCTURE OF ALL DISSIMILAR MATERIALS, PROVIDE PROTECTIVE SEALANT TO COATINGS AS APPLICABLE PER PLANS AND SPECS.

15. PROVIDE ALL FIRE BLOCKING, FIRE STOPS AND DRAFT STOPS IN FLOORS, WALLS, PLENUMS AND ATTICS AS REQUIRED BY CODE.

16. ANY CHANGE IN ALL PLANS OR SPECS MUST BE FIRST APPROVED BY LICENSED DESIGNER IN WRITING. 17. DOORS AND WINDOWS ARE TO COMPLY WITH "RESISTANCE TO FORCED ENTRY" REQUIREMENTS - OBC 9.6.6.

19. GRAB BAR REINFORCEMENT & GRAB BAR INSTALLATION SPECIFCATIONS SHALL BE AS PER OBC 3.8.38.

18. LIGHTING AND ELECTRICAL FACILITIES - OBC 9.34.

NON-FREEZE HOSE BIB _NFHB EXHAUST FAN (FD) FD FLOOR DRAIN SMOKE DETECTOR (INTERCONNECTED) CARBON MONOXIDE DETECTOR (INTERCONNECTED) SOLID BEARING

POINT LOAD ABOVE

PLA

	ACRONYMS
АВ	ANCHOR BOLT
AFF	ABOVE FINISHED FLOOR
BRG. PL	BEARING PLATE
DJ	DOUBLE JOIST
EST	ESTIMATED
E.I.F.S	EXTERIOR INSULATION FINISH SYSTEM
FDN	FOUNDATION
FD	FLOOR DRAIN
FTG	FOOTING
GT	GIRDER TREATED LUMBER
HRV	HEAT RETURN VENTILATION UNIT
HWT	HOT WATER TANK
LVL	LAMINATED VENEER LUMBER
ОН	OVERHEAD
PLA	POINT LOAD ABOVE
PT	PRESSURE TREATED LUMBER
PWDR	POWDER ROOM
REQ'D	REQUIRED
RO	ROUGH OPENING
RT	ROOF TRUSS
SPEC.	SPECIFICATIONS
TJ	TRIPLE JOIST
TYP	TYPICAL
T/O	TOP OF
U/S	UNDER SIDE
WD	WOOD
W.I.C	WALK IN CLOSET

ANCHOR BOLT SPACING

O B C TABLE 9 20 17 5

OVER HANG

O.H

		D.B.C. TABLE 9.20.17.5	
	MAX CLEAR FLOOR SPAN	STAGGERED 1/2" ANCHOR BOLTS	STAGGERED 5/8" ANCHOR BOLTS
	8'-0"	18"	20"
	9'-10"	16"	18"
	13'-1.5"	12"	16"
	16'-4"	11"	13"

NAILING FOR FRAMING

O.B.C. 9.23.3.4

CONSTRUCTION DETAIL	MINIMUM LENGTH OF NAILS, in	MINIMUM NUMBER OR MAXIMUM SPACING OF NAILS		
FLOOR JOISTS TO PLATE - TOE NAIL	3 1/4"	2		
WOOD OR METAL STRAPPING TO UNDERSIDE OF FLOOR JOISTS	2 1/4"	2		
CROSS BRIDGING TO JOISTS	2 1/4"	2 AT EACH END		
DOUBLE HEADER OR TRIMMER JOISTS	3"	11 3/4" O/C		
FLOOR JOIST TO STUD (BALLOON CONSTRUCTION)	3"	2		
LEDGER STRIP TO WOOD BEAM	3 1/4"	2 PER JOIST		
JOIST TO JOIST SPLICE (SEE ALSO TABLE 9.23.13.8)	3"	2 AT EACH END		
HEADER JOIST END NAILED TO JOISTS ALONG PERIMETER	4"	3		
TAIL JOIST TO ADJACENT HEADER JOIST (END NAILED) AROUND OPENINGS	3 1/4"	5		
EACH HEADER JOIST TO ADJACENT TRIMMER	3 1/4"	5		
JOIST (END NAILED) AROUND OPENINGS	4"	3		
STUD TO WALL PLATE (EACH END) TOE	2 1/2"	4		
NAIL OR END NAIL DOUBLED STUDS AT OPENINGS, OR STUDS AT WALLS OR WALL INTERSECTIONS AND CORNERS	3 1/4"	2 30" O/C		
DOUBLED TOP WALL PLATES	3"	23 5/8" O/C		
BOTTOM WALL PLATE OR SOLE PLATE TO	3 1/4"	15 3/4" O/C		
JOISTS OR BLOCKING (EXTERIOR WALLS) INTERIOR WALLS TO FRAMING OR SUBFLOORING	3 1/4"	23 5/8" O/C		
HORIZONTAL MEMBER OVER OPENINGS IN NON-LOADBEARING WALLS - EACH END	3 1/4"	2		
LINTELS TO STUDS	3 1/4"	2 AT EACH END		
CEILING JOIST TO PLATE - TOE NAIL EACH END	3 1/4"	2		
ROOF RAFTER, ROOF TRUSS OR ROOF JOIST TO PLATE - TOE NAIL	3 1/4"	3		
RAFTER PLATE TO EACH CEILING JOIST	4"	2		
RAFTER TO JOIST (WITH RIDGE SUPPORTED)	3"	3		
RAFTER TO JOIST (WITH RIDGE UNSUPPORTED)	3"	SEE O.B.C. TABLE 9.23.13.8		
GUSSET PLATE TO EACH RAFTER AT PEAK	2 1/4"	4		
RAFTER AT RIDGE BOARD - TOE NAIL - END NAIL	3 1/4"	3		
COLLAR TIE TO RAFTER - EACH END	3"	3		
COLLAR TIE LATERAL SUPPORT TO EACH COLLAR TIE	2 1/4"	2		
JACK RAFTER TO HIP OR VALLEY RAFTER	3 1/4"	2		
ROOF STRUT TO RAFTER	3"	3		
ROOF STRUT TO LOADBEARING WALL - TOE NAIL	3 1/4"	2		
2" x 6" OR LESS PLANK DECKING TO SUPPORT	3 1/4"	2		
PLANK DECKING WIDER THAN 2" x 6" TO SUPPORT	3 1/4"	3		
2" EDGE LAID PLANK DECKING TO SUPPORT (TOE NAIL)	3"	1		

2" EDGE LAID PLANK TO EACHOTHER

2 Relssued For Review 2022/11/25 Issued For Review 2022/11/12 No.: Issued For: Date:

Drawing Title:

GENERAL NOTES

PROPOSED TWO STOREY TOWNHOUSE, LOT 6 TO 10, DORCHESTER ROAD, CITY

17 3/4" O/C

2022/11/01 Drawing No.

Scale:

A13

INTEGRATED DESIGN FIRM

Date:

BCIN

Contractor and trader must check and verify all dimensions before execute the work and must report discrepancies and should not scale

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THE UNDERSIGNED HAS REVIEWED AND TAKEN RESPONSIBILITY

FOR THIS DESIGN AND HAS THE QUALIFICATION AND MEETS THE

QUALIFICATION INFORMATION REQUIRED UNLESS THE

REGISTRATION INFORMATION REQUIRED UNLESS THE DESIGN IS

EXEMPT UNDER DIVISION C - 3.2.4.1 OF THE 2012 ONTARIO

7895 Tranmere Dr., Suite 203, Mississauga ON, L5S1V9

Email: contact@rpdstudio.ca

Phone: 647-556-2596

SIGNATURE

REQUIREMENTS SET OUT IN ONTARIO BUILDING CODE TO BE A

DESIGN IN EXEMPT UNDER DIVISION C - 3.2.5.1 OF THE 2012

of the designer and must be returned upon request.

or measure the drawings

stamped by the designer.

ONTARIO BUILDING CODE.

NILAMRAJ (RAJ) PATEL

BUILDING CODE.

FIRM NAME

Client Name:

OF NIAGARA FALLS

Drawn by: Checked by: Project No.:

DOC	R SCHE	DULE	DOC	R SCHE	DULE	DOC	R SCHE	DULE
Mark	Width	Height	Mark	Width	Height	Mark	Width	Height
D 1	2' - 8''	6' - 8''	D33	4' - 0''	6' - 8''	D65	5' - 0''	6' - 8''
D2	5' - 0''	8' - 0''	D34	2' - 8''	6' - 8''	D66	2' - 8''	7' - 0''
D3	8' - 0''	7' - 0''	D35	2' - 4''	6' - 8''	D67	3' - 6"	6' - 8''
D4	3' - 6''	6' - 8''	D36	2' - 8''	6' - 8''	D68	2' - 8"	6' - 8''
D5	2' - 8''	6' - 8''	D37	2' - 8"	6' - 8''	D69	4' - 0''	6' - 8''
D6	2' - 8''	6' - 8''	D38	2' - 4''	6' - 8''	D70	2' - 8"	6' - 8''
D7	2' - 8''	6' - 8''	D39	2' - 4"	6' - 8''	D71	2' - 4"	6' - 8''
D8	2' - 4''	6' - 8''	D40	2' - 8"	6' - 8''	D72	2' - 8"	6' - 8''
D9	5' - 0''	6' - 8''	D41	5' - 0''	8' - 0''	D73	2' - 8"	6' - 8''
D10	2' - 8''	7' - 0''	D42	8' - 0''	7' - 0''	D74	2' - 4"	6' - 8''
D11	2' - 8''	6' - 8''	D43	3' - 6"	6' - 8''	D75	2' - 4"	6' - 8''
D12	3' - 0''	6' - 8''	D44	2' - 8"	6' - 8''	D76	2' - 8''	6' - 8''
D13	3' - 6''	6' - 8''	D45	2' - 8"	6' - 8''	D77	5' - 0''	8' - 0''
D14	2' - 8''	6' - 8''	D46	2' - 4"	6' - 8''	D78	8' - 0''	7' - 0''
D15	2' - 4''	6' - 8''	D47	5' - 0''	6' - 8''	D79	3' - 6''	6' - 8''
D16	3' - 0''	6' - 8''	D48	2' - 8''	7' - 0''	D80	2' - 8''	6' - 8''
D17	2' - 8''	6' - 8''	D 49	2' - 8''	6' - 8''	D81	2' - 8''	6' - 8''
D18	2' - 4''	6' - 8''	D50	4' - 0''	6' - 8''	D82	2' - 4"	6' - 8''
D19	2' - 8''	6' - 8''	D51	2' - 8''	6' - 8''	D83	2' - 8''	6' - 8''
D20	2' - 4''	6' - 8''	D52	3' - 6''	6' - 8''	D84	5' - 0''	6' - 8''
D21	2' - 4''	6' - 8''	D53	2' - 4"	6' - 8''	D85	2' - 8''	7' - 0''
D22	2' - 8''	6' - 8''	D54	2' - 8"	6' - 8''	D86	3' - 0''	6' - 8''
D23	5' - 0''	8' - 0''	D55	2' - 8''	6' - 8''	D87	2' - 8''	6' - 8''
D24	8' - 0''	7' - 0''	D56	2' - 4"	6' - 8''	D88	2' - 8''	6' - 8''
D25	3' - 6''	6' - 8''	D57	2' - 4"	6' - 8''	D89	3' - 6"	6' - 8''
D26	2' - 8''	6' - 8''	D 58	2' - 8"	6' - 8''	D 90	2' - 4"	6' - 8''
D27	2' - 8''	6' - 8''	D 59	5' - 0''	8' - 0''	D 91	2' - 8''	6' - 8''
D28	2' - 4''	6' - 8''	D 60	8' - 0''	7' - 0''	D92	3' - 0''	6' - 8''
D29	5' - 0''	6' - 8''	D 61	3' - 6"	6' - 8''	D93	2' - 4''	6' - 8''
D30	2' - 8''	7' - 0''	D62	2' - 8"	6' - 8''	D94	2' - 8''	6' - 8''
D31	3' - 6''	6' - 8''	D 63	2' - 8"	6' - 8''	D95	2' - 4"	6' - 8''
D32	2' - 8"	6' - 8''	D64	2' - 4''	6' - 8''	D 96	2' - 4"	6' - 8''

DOOR & WINDOW SCHEDULES ARE FOR REFRENCE ONLY.
DESIGNER IS NOT LIABLE FOR ANY DISCREPANCY.

WINDOW SUPPLIER TO ENSURE DOORS & WINDOWS ARE AS PER OBC STANDARD INCLUDING MINIMUM OPENABLE OPENINGS

WINDOW SCHEDULE Mark Width Height			Mark Width Heigh			
IVIAIR	widti	Height	IVIAIR	wiatii	rieigii	
W1	2' - 6''	2' - 0''	W35	3' - 0''	3' - 0"	
W2	2' - 6''	2' - 0''	W36	2' - 0''	5' - 0''	
W3	3' - 11"	2' - 8''	W37	8' - 0''	5' - 0''	
W4	2' - 6''	2' - 0''	W38	8' - 0''	5' - 0''	
W5	3' - 11"	2' - 8''	W39	8' - 0''	5' - 0''	
W6	2' - 6''	2' - 0''	W40	8' - 0''	5' - 0''	
W7	2' - 6''	2' - 0''	W41	8' - 0''	5' - 0''	
W8	3' - 11"	2' - 8''	W42	2' - 0''	5' - 0''	
W9	3' - 11"	2' - 8''	W43	3' - 0''	3' - 0"	
W10	2' - 6''	2' - 0''	W44	2' - 0''	5' - 0''	
W11	2' - 6''	2' - 0''	W45	1' - 6''	1' - 6"	
W12	3' - 11"	2' - 8''	W46	1' - 6''	1' - 6"	
W13	2' - 6''	2' - 0''	W47	2' - 0''	7' - 0''	
W14	2' - 6''	2' - 0''	W48	8' - 0''	5' - 0''	
W15	2' - 0''	5' - 0''	W49	8' - 0''	1' - 6"	
W16	2' - 0''	5' - 0''	W50	8' - 0''	6' - 0''	
W17	8' - 0''	5' - 0''	W51	1' - 6"	1' - 6"	
W18	8' - 0''	5' - 0''	W52	1' - 6"	1' - 6"	
W19	8' - 0''	5' - 0''	W53	2' - 0"	7' - 0''	
W20	8' - 0''	5' - 0''	W54	2' - 0"	7' - 0''	
W21	8' - 0''	5' - 0''	W55	1' - 6"	1' - 6"	
W22	2' - 0''	5' - 0''	W56	1' - 6''	1' - 6"	
W23	2' - 0''	5' - 0''	W57	8' - 0''	6' - 0''	
W24	1' - 6''	1' - 6"	W58	8' - 0''	5' - 0''	
W25	1' - 6''	1' - 6"	W59	8' - 0"	1' - 6''	
W26	1' - 6''	1' - 6"	W60	2' - 0''	7' - 0''	
W27	1' - 6''	1' - 6"	W61	1' - 6''	1' - 6"	
W28	1' - 6''	1' - 6"	W62	1' - 6''	1' - 6"	
W29	1' - 6''	1' - 6"	W63	8' - 0''	5' - 0''	
W30	1' - 6''	1' - 6"	W64	8' - 0''	1' - 6"	
W31	1' - 6''	1' - 6"	W65	2' - 0"	7' - 0''	
W32	1' - 6''	1' - 6"	W66	1' - 6"	1' - 6"	
W33	1' - 6"	1' - 6''	W67	1' - 6"	1' - 6"	

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ONTARIO BUILDING CODE.

NILAMRAJ (RAJ) PATEL

10062

NAME SIGNATURE BCIN

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BUILDING CODE.

FIRM NAME BCI



Date:

TRANSPORTED DESIGN FIRM
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Email: contact@rpdstudio.ca

No.: Revision:



2 Relssued For Review 2022/11/25
1 Issued For Review 2022/11/12
No.: Issued For: Date:

Client Name:

Drawing Title:

DOOR & WINDOW SCHEDULE

Proie

KOLE

PROPOSED TWO STOREY TOWNHOUSE, LOT 6 TO 10, DORCHESTER ROAD, CITY OF NIAGARA FALLS

Drawn by:

MJ
Checked by:
RP
Project No.:

Date:
2022/11/01
Drawing No.:

A14