

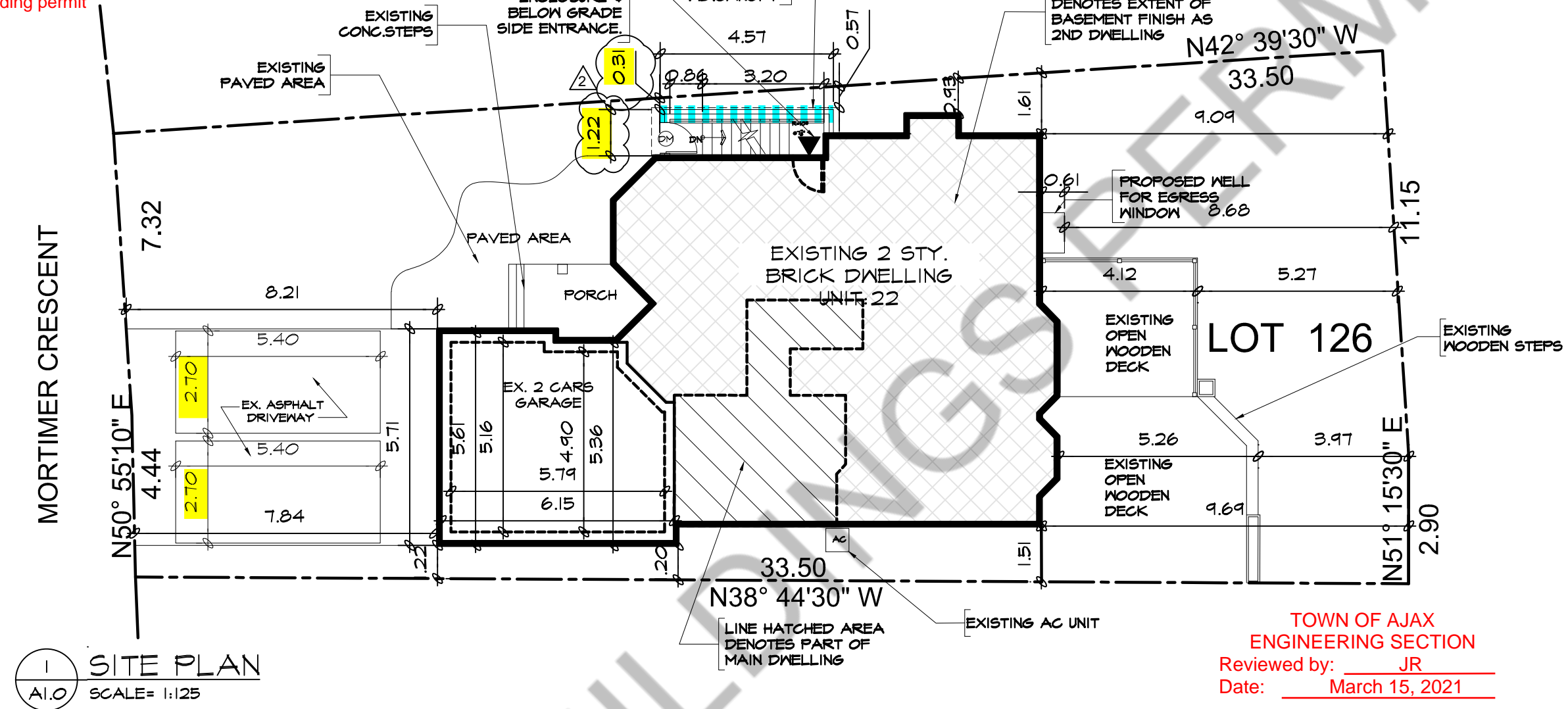
PERMIT NO.
20 108711
TOWN OF AJAX
BUILDING APPROVALS

Covered below grade entrance building permit

Zone R1-D
A copy of the stamped/reviewed drawings must remain on site during construction. The permit is issued subject to compliance with all red-line revisions and notes, etc.

These drawings reviewed under O. Reg. 332/12 as amended.
MANDATORY INSPECTIONS:
Required as listed on the back of the permit card.

Plans review subject to revision noted
Reviewed by: KW
Town of Ajax Date: Mar 15, 2021
This review does not exempt the owner, designer, or the builder from complying with all pertinent regulations and by-laws of the Town of Ajax and the Ontario Building Code



SITE PLAN
SCALE= 1:125

TOWN OF AJAX ENGINEERING SECTION
Reviewed by: JR
Date: March 15, 2021

Project No.: 2018024	Date: 06.10.2020	D'wg. no. A1.0	REV. NO. -
Checked By: SA	Scale: AS NOTED		
Drawn By: HT	Revisions: 1 01.24.2021 2 03.01.2021		
Sheet title: SITE PLAN			

Project: PROPOSED BASEMENT FINISH PLAN FOR SECOND DWELLING UNIT AT 22 MORTIMER CRESCENT, AJAX

Owners: **KOMAL KAMRAN HAIDER ISHFAQ HASSAN**



General Notes:

- All storm water shall be directed in such a manner that water will not accumulate at or near a building including foundation walls, window, entrances and walkways.
- Where the existing grade is altered due to grading, excavation, filling or any other related work, all such work shall be undertaken and completed in accordance with good engineering practice to ensure stable conditions and so as not to adversely affect or damage public or private property.
- All yards shall be graded between 2.00% and 5.00%. Slopes greater than 5.00% shall utilize transition sodded slopes not greater than 3 to 1.
- Existing drainage must be maintained during and after construction.
- All existing pavements, curbs, sidewalks, driveways and boulevard areas disturbed by the construction must be reinstated to the satisfaction of the Town of Ajax.

SITE DATA		M/SM	
ZONING			
PLAN NO:			
LOT NO:	126		
LOT AREA	433.35 SQ.M		
EXISTING		PROPOSED	
BUILDING AREA (G.F) (INCL. FRONT PORCH+EX. GARAGE)	= 147.97 SQ.M	PROPOSED GROSS BASEMENT FINISH AREA (EXCL. FURNACE)	= 96.16 SQ.M
LOT COVERAGE	= 34.14%	PROPOSED BASEMENT FINISH AREA FOR SECOND DWELLING	= 87.56 SQ.M
GROUND FLOOR AREA (EXCL. PORCH, GARAGE)	= 109.77 SQ.M	PROPOSED BASEMENT FINISH AREA FOR PART OF MAIN DWELLING	= 8.60 SQ
SECOND FLOOR AREA	= 122.30 SQ.M	PROPOSED BELOW GRADE WALKOUT STAIR WITH UNHEATED ENCLOSURE AREA	= 4.57M X 1.22M = 5.57 SQ.M
GROSS FLOOR AREA	= 232.07 SQ.M	LOT COVERAGE	= 35.43% (153.54 SQ.M)
BASEMENT AREA (UNFINISHED INCL. FURNACE)	= 108.77 SQ.M		

ARCHISYSTEM INC.

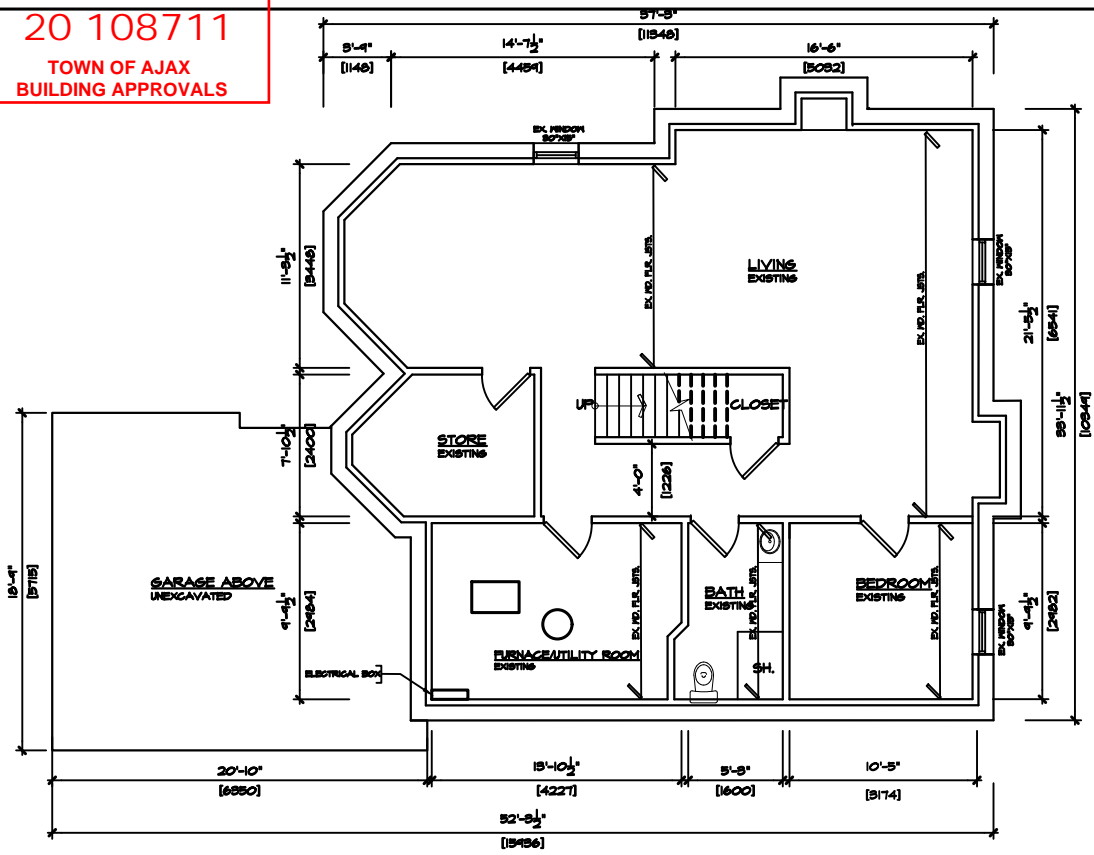
CONSULTING ARCHITECTS
CERTIFICATE OF PRACTICE # 5465

80 Eastern Ave. Unit A9, Brampton, ON.
Canada L6W 0B6
Tel: (O) 905 858-2565 (C) 647-295-2565
www.thearchisystem.com
e-mail: archisystem@gmail.com

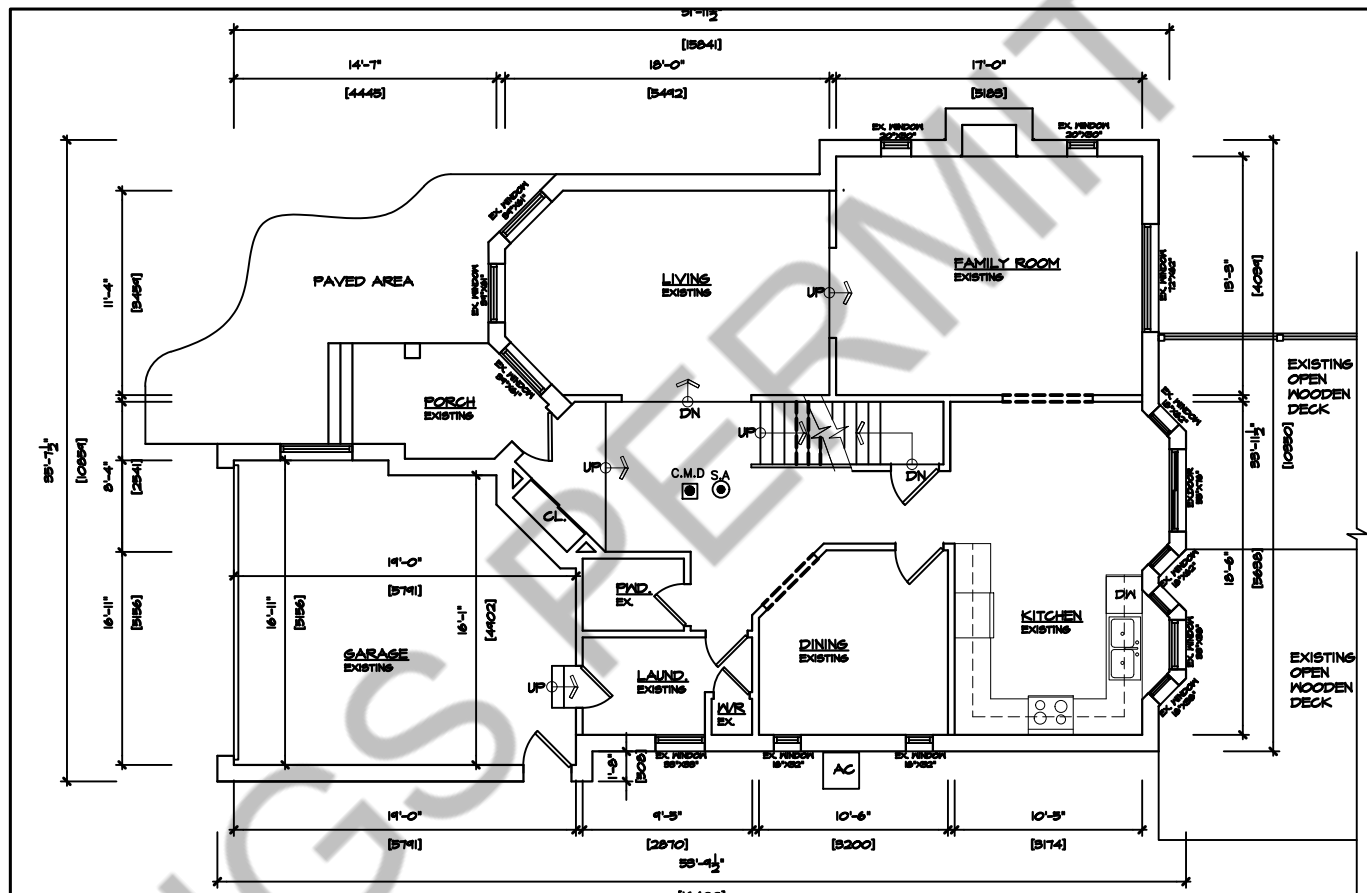
PERMIT NO.

20 108711

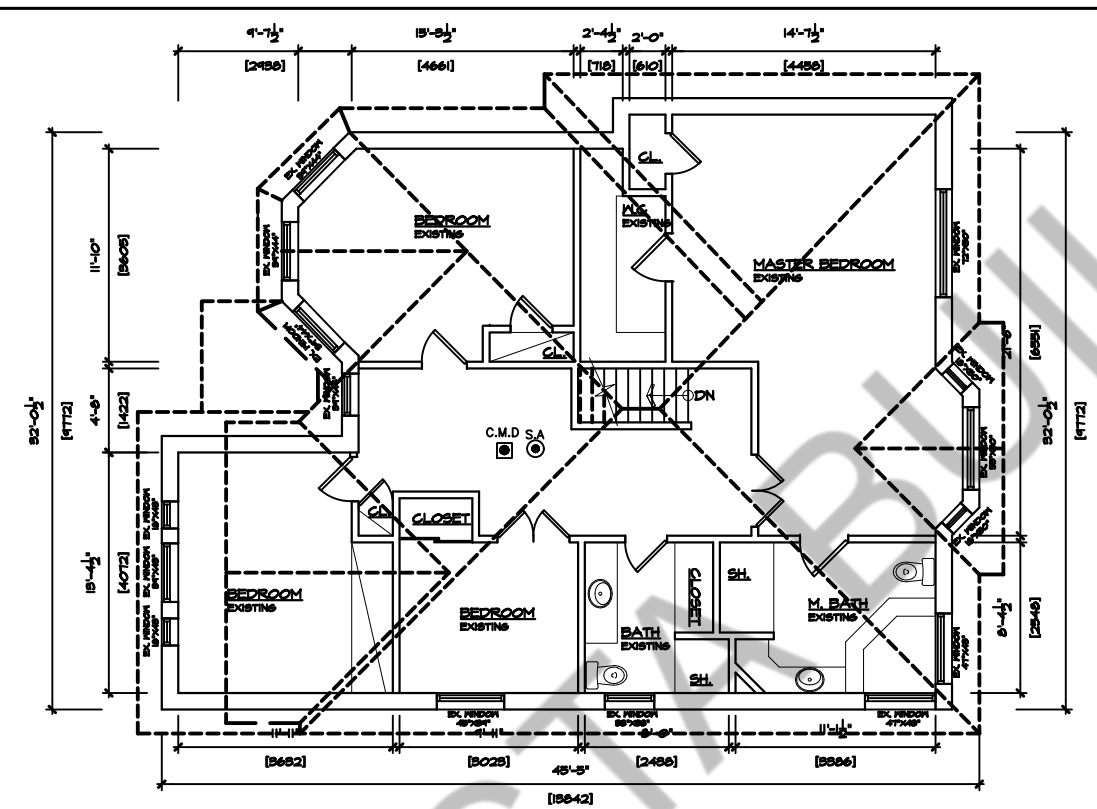
TOWN OF AJAX
BUILDING APPROVALS



1 EXISTING BASEMENT FLOOR PLAN
A2.0 SCALE= 3/32"=1'-0"



2 EXISTING GROUND FLOOR PLAN
A2.0 SCALE= 3/32"=1'-0"



3 EXISTING SECOND FLOOR PLANS
A2.0 SCALE= 3/32"=1'-0"

Sheet title: EXISTING FLOOR PLANS

Checked By: SA	Project No.: 2018024
Drawn By: HT	Date: 06.10.2020
Scale: AS NOTED	Dwg. no. A2.0
Revisions	REV. NO. :

Project: PROPOSED BASEMENT FINISH PLAN FOR SECOND DWELLING UNIT AT 22 MORTIMER CRESCENT, AJAX

Owners: KOMAL KAMRAN HAIDER ISHFAQ HASSAN



ARCHISYSTEM INC.
CONSULTING ARCHITECTS
CERTIFICATE OF PRACTICE # 5465

80 Eastern Ave. Unit A9, Brampton, ON.
Canada L6W 0B6
Tel: (O) 905-858-2565 (C) 647-295-2565
www.thearchisystem.com
e-mail: archisystem@gmail.com

PERMIT NO.
20 108711
TOWN OF AJAX
BUILDING APPROVALS

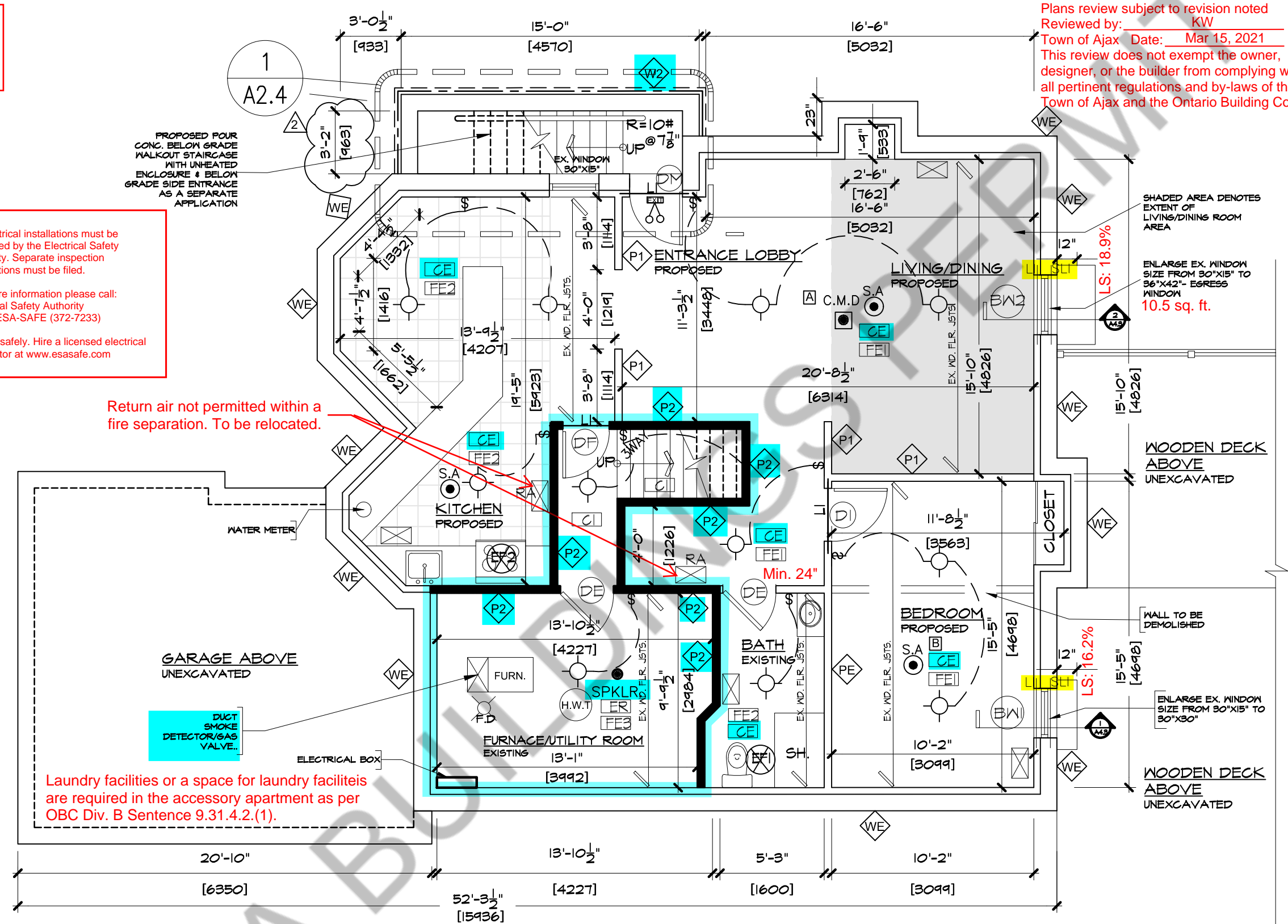
Electrical Contractor Registration Agency
of the Electrical Safety Authority

All electrical installations must be inspected by the Electrical Safety Authority. Separate inspection applications must be filed.

For more information please call:
Electrical Safety Authority
1-877-ESA-SAFE (372-7233)

Plug in safely. Hire a licensed electrical contractor at www.esasafe.com

Plans review subject to revision noted
Reviewed by: KW
Town of Ajax Date: Mar 15, 2021
This review does not exempt the owner, designer, or the builder from complying with all pertinent regulations and by-laws of the Town of Ajax and the Ontario Building Code



CALCULATION OF GLASS AREA AS PER OBC 9.7.2.3 & 11-C107

ROOM LABEL	ROOM TYPE	AREA OF ROOM	AREA OF WINDOWS PROVIDED*	AREA OF WINDOWS REQUIRED
[A]	LIVING/DINING	161 SQ.FT	36"x42" = 9.45 SQ.FT	5% = 8.05 SQ.FT.
[B]	BEDROOM-1	158.13 SQ.FT	30"x30"=6.25 SQ.FT	2.5% =3.95 SQ.FT

NOTE* : 90% OF TOTAL WINDOW AREA

1 PROPOSED BASEMENT FLOOR PLAN
A2.1 SCALE= 3/16"=1'-0"

Sheet title: PROPOSED BASEMENT FLOOR PLAN

Project: PROPOSED BASEMENT FINISH PLAN FOR SECOND DWELLING UNIT AT 22 MORTIMER CRESCENT, AJAX

Owners: KOMAL KAMRAN HAIDER ISHFAQ HASSAN

Project No.: 2018024

Checked By: SA

Scale: AS NOTED

Revisions: 1 01.24.2021 2 03.01.2021

Drawn By: HT

Revisions: 1 01.24.2021 2 03.01.2021

North Arrow

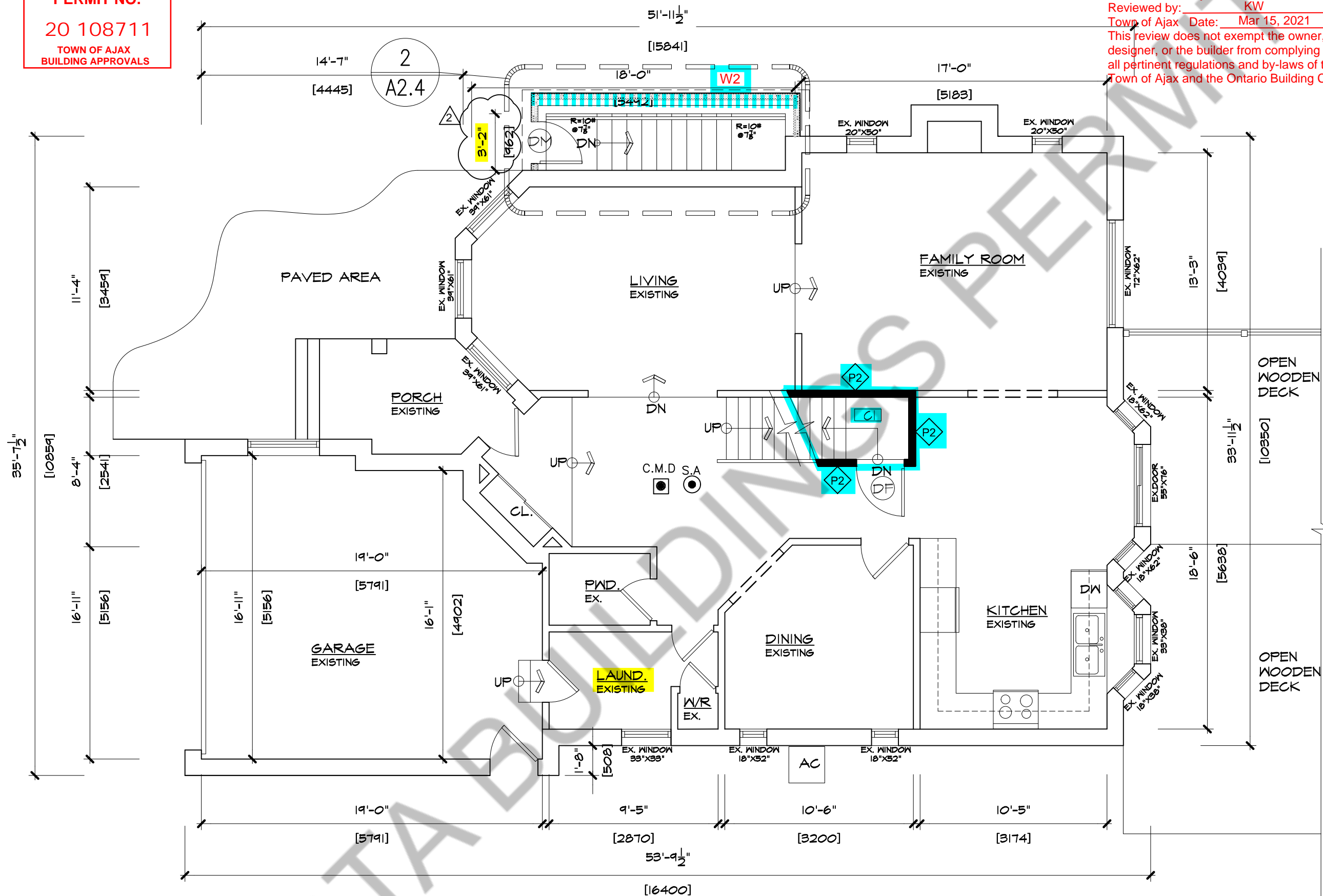
Architects: ARCHISYSTEM INC. CONSULTING ARCHITECTS CERTIFICATE OF PRACTICE # 5465

80 Eastern Ave. Unit A9, Brampton, ON. Canada L6W 0B6
Tel: (O) 905 858-2565 (C) 647-295-2565
www.thearchisystem.com
e-mail: archisystem@gmail.com

Ontario Association of Architects
OF ARCHITECTS
Licence 7987
SARWAT S AHMED

PERMIT NO.
20 108711
 TOWN OF AJAX
 BUILDING APPROVALS

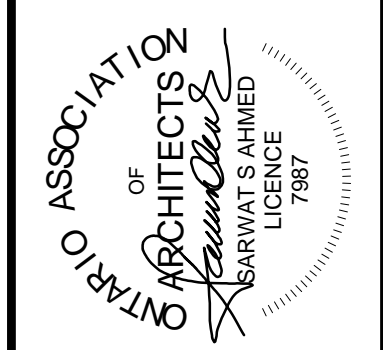
Plans review subject to revision noted
 Reviewed by: KW
 Town of Ajax Date: Mar 15, 2021
 This review does not exempt the owner,
 designer, or the builder from complying with
 all pertinent regulations and by-laws of the
 Town of Ajax and the Ontario Building Code



Sheet title: OVERALL GROUND FLOOR PLAN	
Checked By: SA	Project No.: 2018024
Drawn By: HT	Date: 06.10.2020
Revisions	Scale: AS NOTED
2 03.01.2021	D'wg. no. A2.2
REV. NO. :-	

Project
 PROPOSED BASEMENT
 FINISH PLAN FOR SECOND
 DWELLING UNIT AT 22
 MORTIMER CRESCENT, AJAX

Owners:
 KOMAL KAMRAN
 HAIDER ISHFAQ HASSAN



ARCHISYSTEM INC.
 CONSULTING ARCHITECTS
 CERTIFICATE OF PRACTICE # 5465

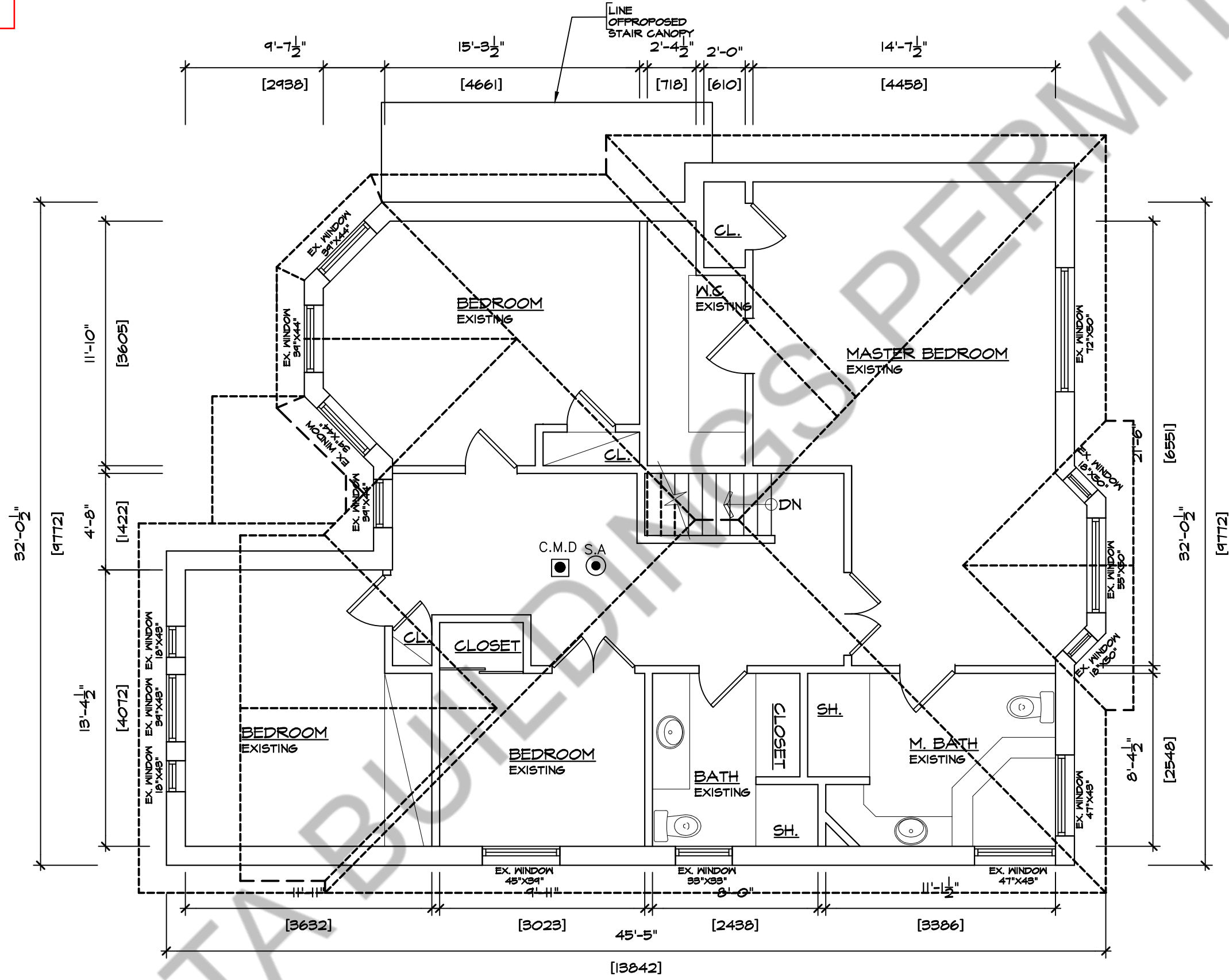
80 Eastern Ave. Unit A9, Brampton, ON.
 Canada L6W 0B6
 Tel: (O) 905 858-2565 (C) 647-295-2565
 www.thearchisystem.com
 e-mail: archisystem@gmail.com

1 OVERALL GROUND FLOOR PLAN
 A2.2 SCALE = 3/16" = 1'-0" [1:64]

PERMIT NO.

20 108711

TOWN OF AJAX
BUILDING APPROVALS

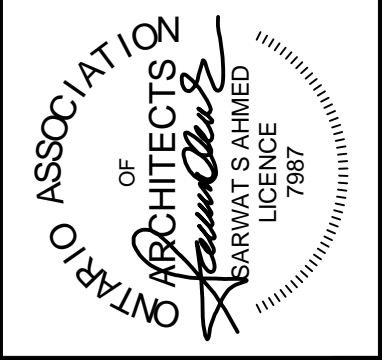


1 EXISTING SECOND FLOOR PLAN
A2.3 SCALE = 3/16" = 1'-0" [1:64]

Sheet title: EXISTING SECOND FLOOR PLAN		Checked By: SA	Project No.: 2018024
Drawn By: HT	Scale: AS NOTED	Date: 06.10.2020	Dwg. no. A2.3
Revisions			

Project
PROPOSED BASEMENT
FINISH PLAN FOR SECOND
DWELLING UNIT AT 22
MORTIMER CRESCENT, AJAX

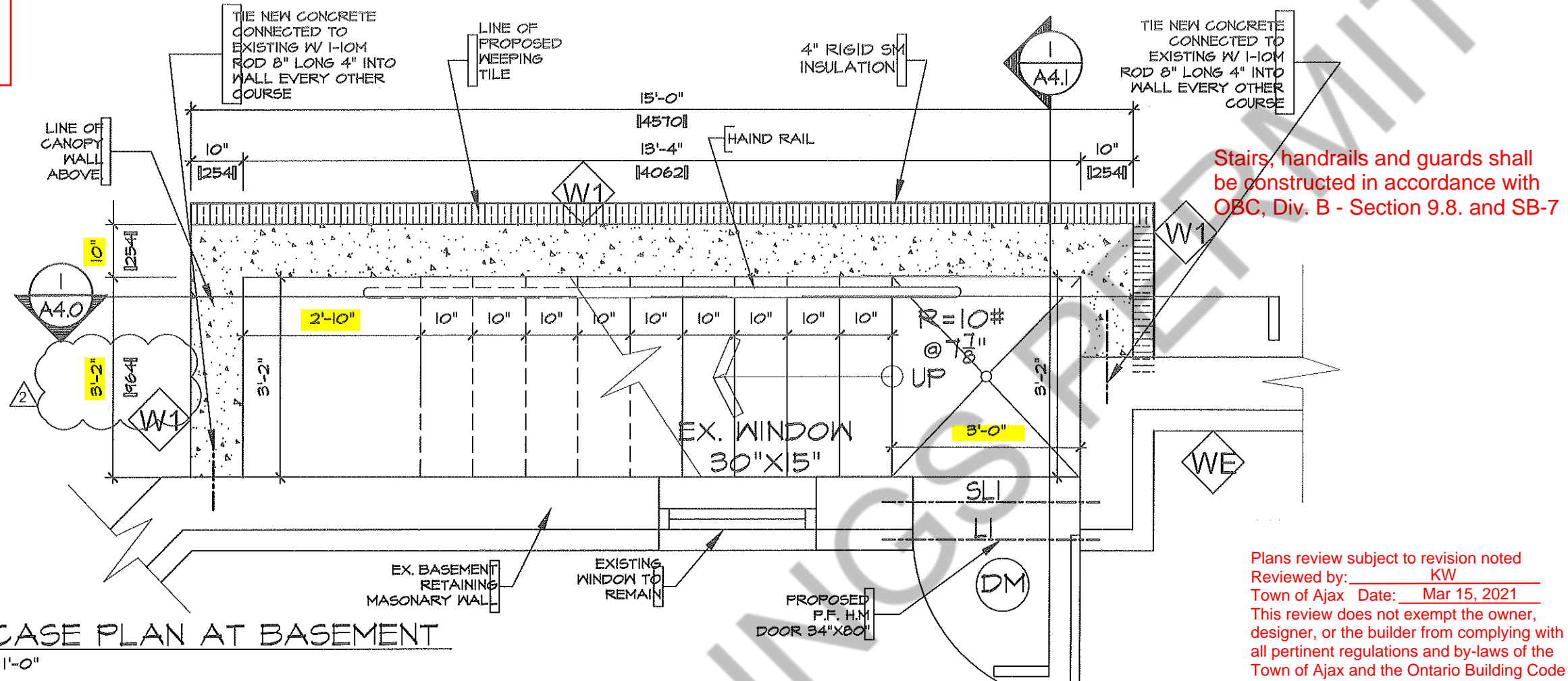
Owners:
KOMAL KAMRAN
HAIDER ISHFAQ HASSAN



ARCHISYSTEM INC.
CONSULTING ARCHITECTS
CERTIFICATE OF PRACTICE # 5466

80 Eastern Ave. Unit A9, Brampton, ON.
Canada L6W 0B6
Tel: (O) 905 858-2565 (C) 647-295-2565
www.thearchisystem.com
e-mail: archisystem@gmail.com

PERMIT NO.
20 108711
TOWN OF AJAX
BUILDING APPROVALS



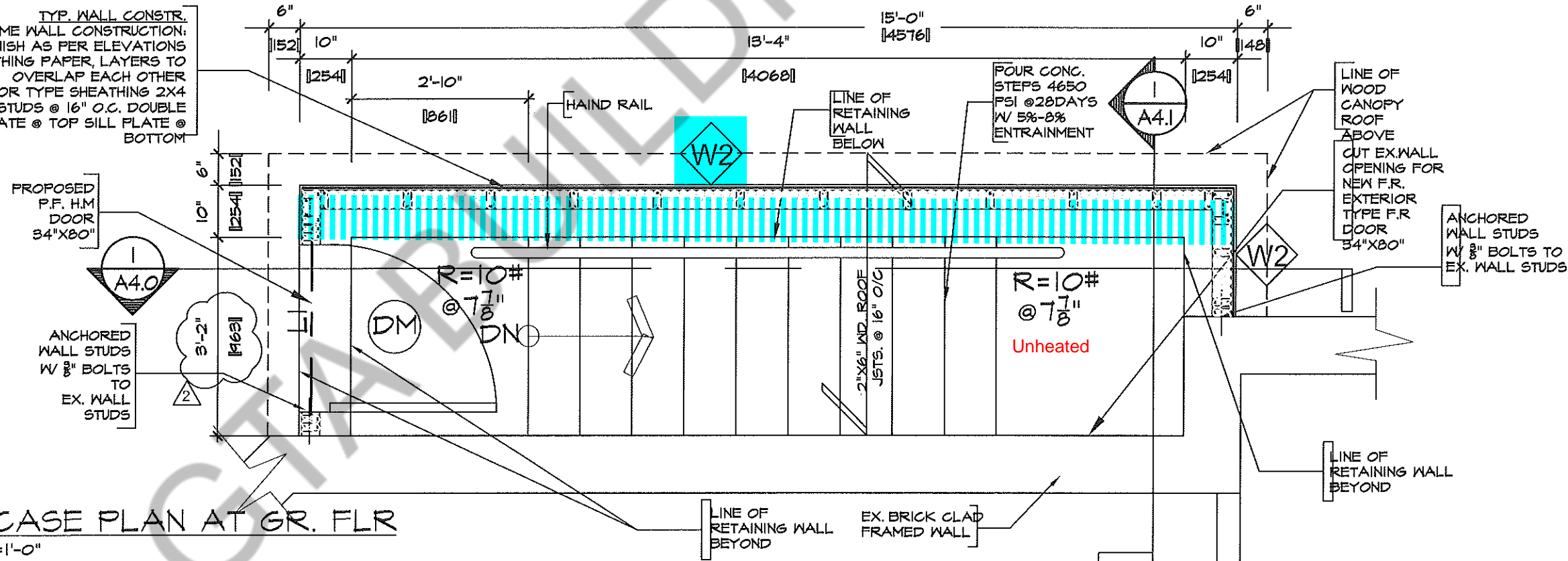
Stairs, handrails and guards shall be constructed in accordance with OBC, Div. B - Section 9.8. and SB-7

Plans review subject to revision noted
Reviewed by: KW
Town of Ajax Date: Mar 15, 2021
This review does not exempt the owner, designer, or the builder from complying with all pertinent regulations and by-laws of the Town of Ajax and the Ontario Building Code

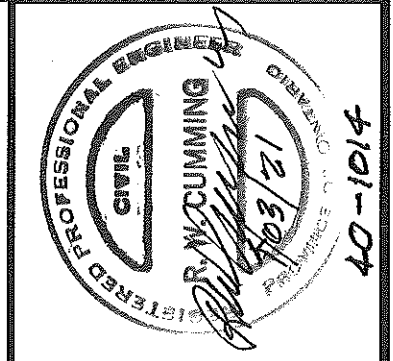
1 STAIRCASE PLAN AT BASEMENT
A2.4 SCALE= 1/2"=1'-0"

Sheet title:	STAIRCASE PLANS		
Drawn By:	HT	Checked By:	SA
Revisions	203.01.2021	Scale:	AS NOTED
Project	PROPOSED BASEMENT FINISH PLAN FOR SECOND DWELLING UNIT AT 22 MORTIMER CRESCENT, AJAX		
Owners:	KOMAL KAMRAN HAIDER ISHFAQ HASSAN		
Project No.:	2018024	Date:	06.10.2020
Dwg. no.:	A2.4		
REV. NO.:	-		

TYP. WALL CONSTR. FRAME WALL CONSTRUCTION: FINISH AS PER ELEVATIONS SHEATHING PAPER, LAYERS TO OVERLAP EACH OTHER EXTERIOR TYPE SHEATHING 2X4 WOOD STUDS @ 16" O.C. DOUBLE PLATE @ TOP SILL PLATE @ BOTTOM



2 STAIRCASE PLAN AT GR. FLR
A2.4 SCALE= 1/2"=1'-0"

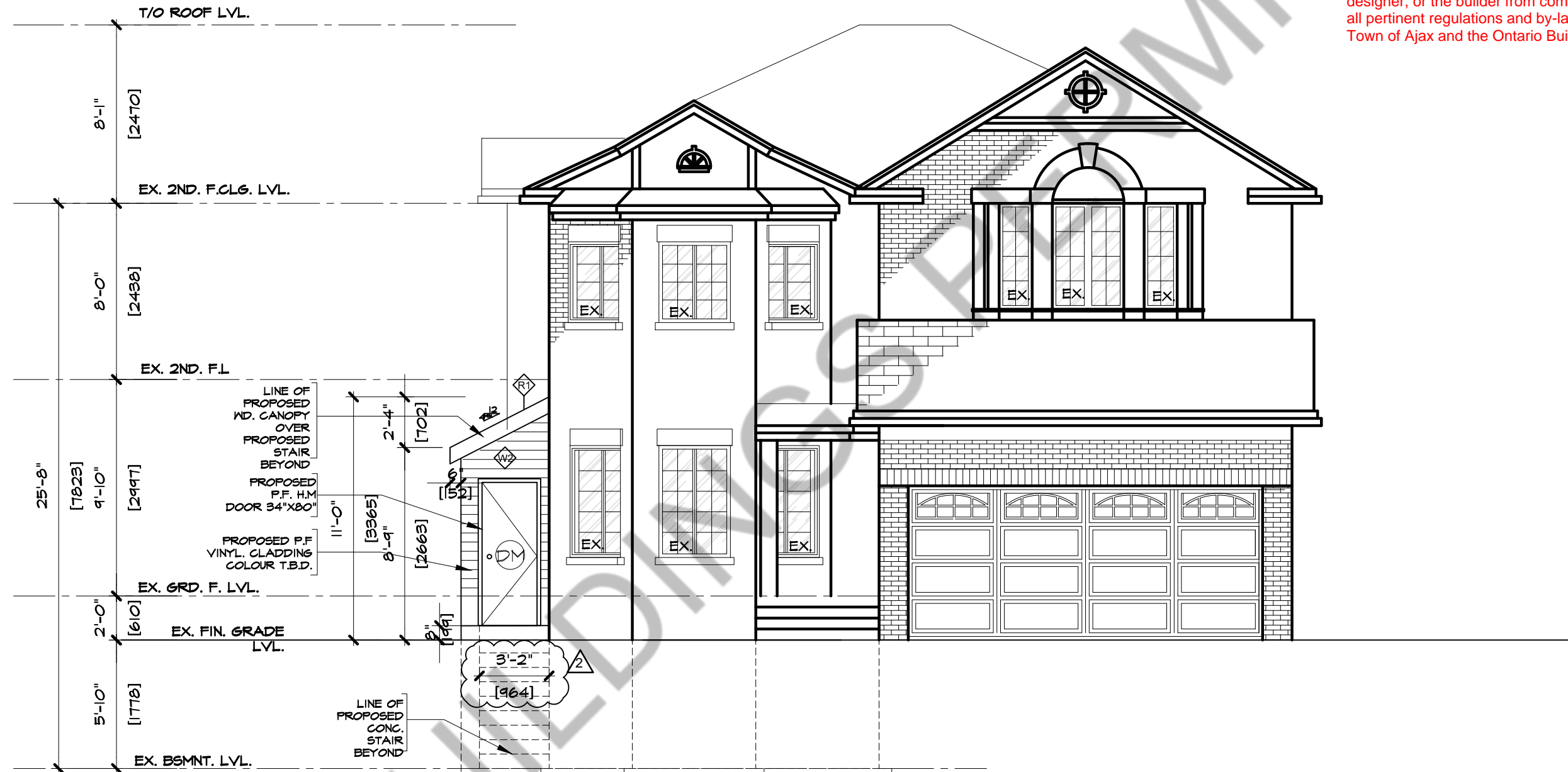


ARCHISYSTEM INC.
CONSULTING ARCHITECTS
CERTIFICATE OF PRACTICE # 5465
80 Eastern Ave. Unit A9, Brampton, ON
Canada L6W 0B6
Tel: (O) 905 858-2565 (C) 647-296-2565
www.thearchisystem.com
e-mail: archisystem@gmail.com

PERMIT NO.
20 108711
 TOWN OF AJAX
 BUILDING APPROVALS

Windows, doors and skylights shall be in conformance with OBC, Div. B - Section 9.7. and SB-12.

Plans review subject to revision noted
 Reviewed by: KW
 Town of Ajax Date: Mar 15, 2021
 This review does not exempt the owner, designer, or the builder from complying with all pertinent regulations and by-laws of the Town of Ajax and the Ontario Building Code



1 FRONT ELEVATION
 A3.0 SCALE = 3/16" = 1'-0" [1:64]

ARCHISYSTEM INC.

CONSULTING ARCHITECTS
 CERTIFICATE OF PRACTICE # 5465

80 Eastern Ave. Unit A9, Brampton, ON.
 Canada L6W 0B6
 Tel: (O) 905 858-2565 (C) 647-295-2565
 www.thearchisystem.com
 e-mail: archisystem@gmail.com



Project
 PROPOSED BASEMENT
 FINISH PLAN FOR SECOND
 DWELLING UNIT AT 22
 MORTIMER CRESCENT, AJAX

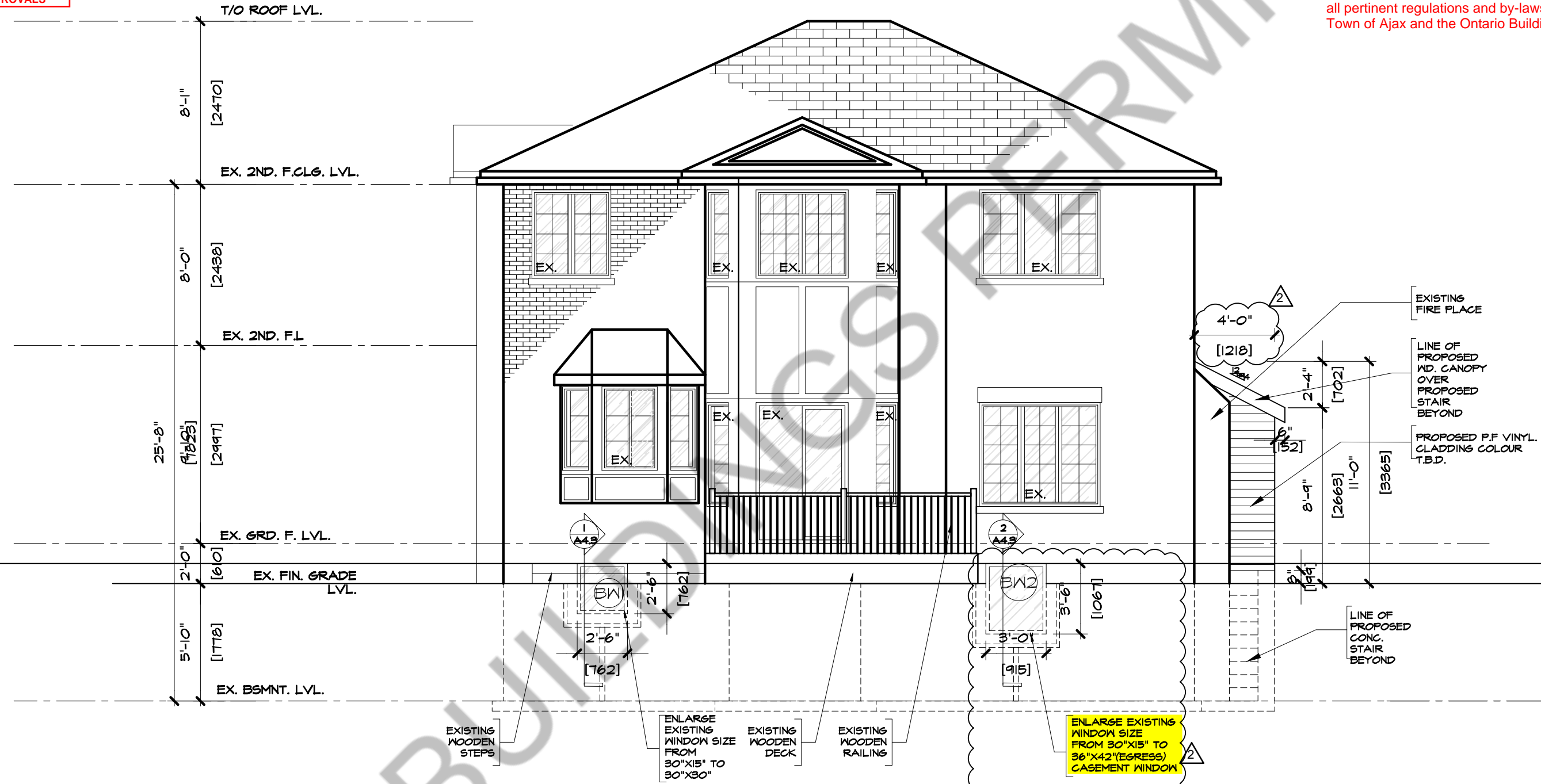
Owners:
 KOMAL KAMRAN
 HAIDER ISHFAQ HASSAN

Sheet title:
 FRONT ELEVATION

Revisions	Drawn By:	Checked By:
2 03.01.2021	SF	SA
	Scale:	Date:
	A5 NOTED	07-10-2020
		D'wg. no.
		A3.0
		REV. NO: -

PERMIT NO.
20 108711
 TOWN OF AJAX
 BUILDING APPROVALS

Plans review subject to revision noted
 Reviewed by: KW
 Town of Ajax Date: Mar 15, 2021
 This review does not exempt the owner,
 designer, or the builder from complying with
 all pertinent regulations and by-laws of the
 Town of Ajax and the Ontario Building Code



1 REAR ELEVATION
 A3.1 SCALE = 3/16" = 1'-0" [1:64]

ARCHISYSTEM INC.
 CONSULTING ARCHITECTS
 CERTIFICATE OF PRACTICE # 5465

80 Eastern Ave. Unit A9, Brampton, ON.
 Canada L6W 0B6
 Tel: (O) 905 858-2565 (C) 647-295-2565
 www.thearchisystem.com
 e-mail: archisystem@gmail.com

ONTARIO ASSOCIATION
 OF
 ARCHITECTS

Sarwat S Ahmed
 SARWAT S AHMED
 LICENCE
 7987

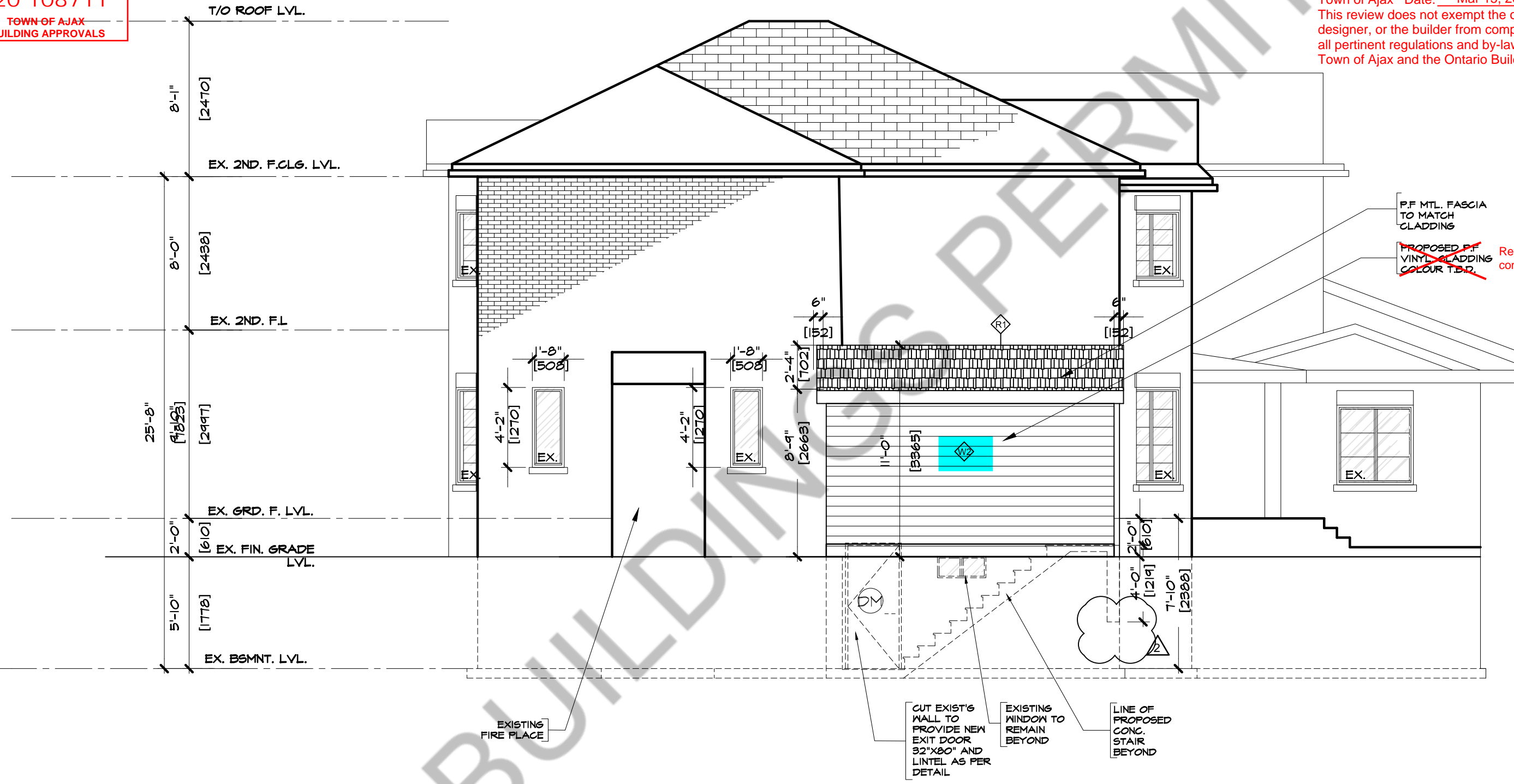
Project
 PROPOSED BASEMENT
 FINISH PLAN AND BELOW
 GRADE WALKOUT STAIR
 FOR SECOND DWELLING
 UNIT AT 22 MORTIMER
 CRESCENT, AJAX

Owners:
 KOMAL KAMRAN
 HAIDER ISHFAQ HASSAN

Sheet title: REAR ELEVATION		
Revisions	Drawn By: SF	Checked By: SA
2 03.01.2021	Scale: AS NOTED	Date: 07-10-2020
-		D'wg. no.
-		A3.1
-		REV. NO: -

PERMIT NO.
20 108711
 TOWN OF AJAX
 BUILDING APPROVALS

Plans review subject to revision noted
 Reviewed by: KW
 Town of Ajax Date: Mar 15, 2021
 This review does not exempt the owner,
 designer, or the builder from complying with
 all pertinent regulations and by-laws of the
 Town of Ajax and the Ontario Building Code



1 LEFT SIDE ELEVATION
 A3.2 SCALE= 3/16"=1'-0" [1:64]

ARCHISYSTEM INC.
 CONSULTING ARCHITECTS
 CERTIFICATE OF PRACTICE # 5465
 80 Eastern Ave. Unit A9, Brampton, ON.
 Canada L6W 0B6
 Tel:(O) 905 858-2565 (C) 647-295-2565
 www.thearchisystem.com
 e-mail: archisystem@gmail.com



Project
 PROPOSED BASEMENT
 FINISH PLAN FOR SECOND
 DWELLING UNIT AT 22
 MORTIMER CRESCENT, AJAX
 Owners:
 KOMAL KAMRAN
 HAIDER ISHFAQ HASSAN

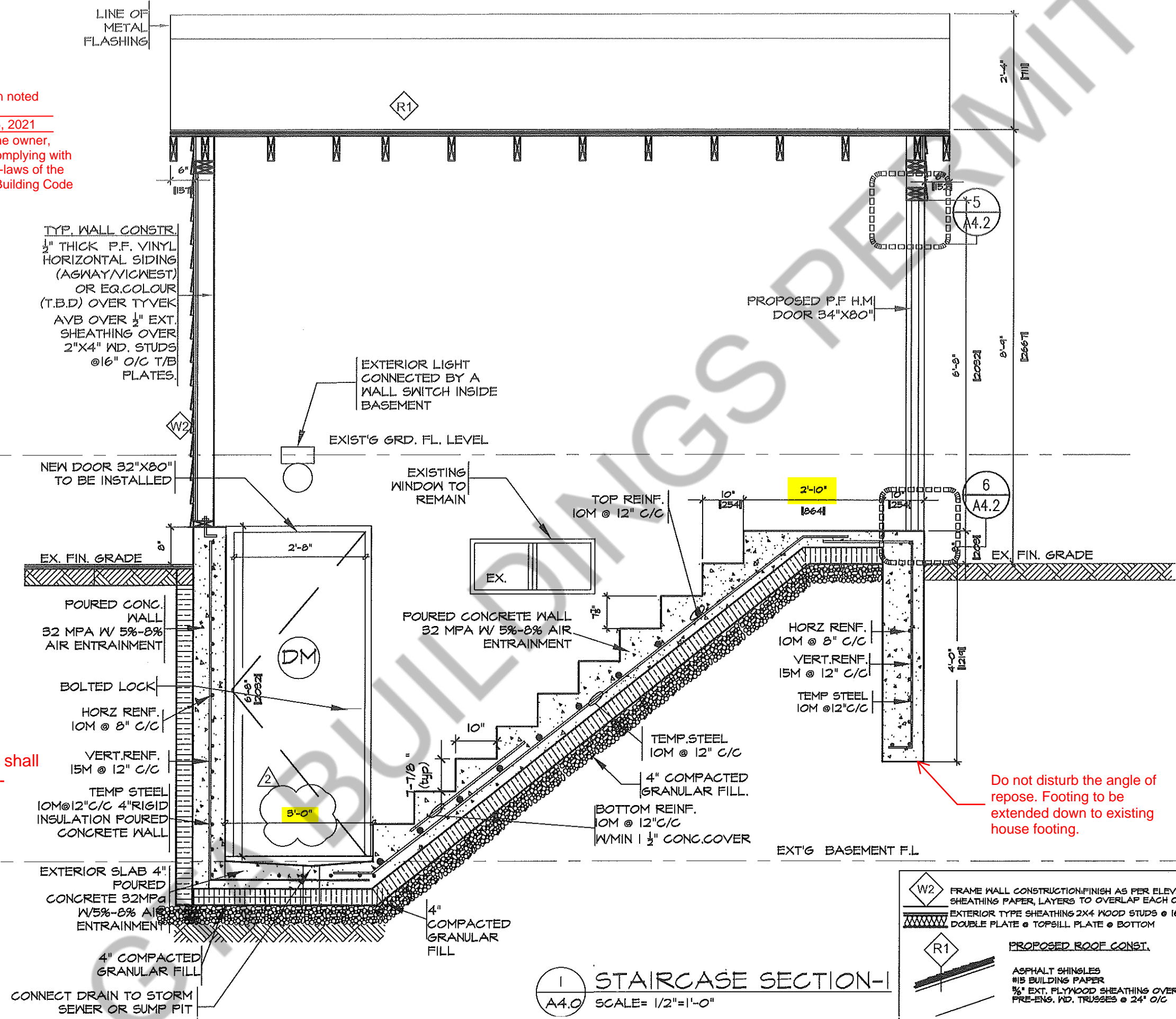
Sheet title: LEFT SIDE ELEVATION		
Revisions	Drawn By: SF	Checked By: SA
1 01.29.2021	Scale: AS NOTED	Date: 07-10-2020
2 03.01.2021		D'wg. no. A3.2
		REV. NO: -

PERMIT NO.

20 108711

TOWN OF AJAX
BUILDING APPROVALS

Plans review subject to revision noted
Reviewed by: KW
Town of Ajax Date: Mar 15, 2021
This review does not exempt the owner,
designer, or the builder from complying with
all pertinent regulations and by-laws of the
Town of Ajax and the Ontario Building Code



Maximum backfill height shall conform to OBC, Div. B - 9.15.4.2.

Do not disturb the angle of repose. Footing to be extended down to existing house footing.

1 STAIRCASE SECTION-1
A4.0 SCALE = 1/2" = 1'-0"

W2 FRAME WALL CONSTRUCTION: FINISH AS PER ELEVATIONS SHEATHING PAPER, LAYERS TO OVERLAP EACH OTHER. EXTERIOR TYPE SHEATHING 2X4 WOOD STUDS @ 16" O.C. DOUBLE PLATE @ TOPSILL PLATE @ BOTTOM

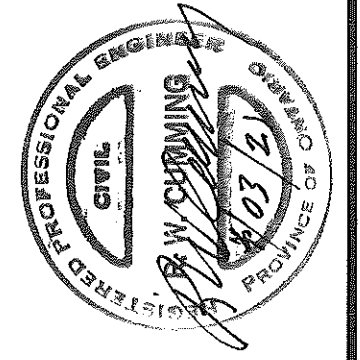
R1 PROPOSED ROOF CONST.
ASPHALT SHINGLES
#15 BUILDING PAPER
5/8" EXT. PLYWOOD SHEATHING OVER PRE-ENG. WD. TRUSSES @ 24" O/C

Sheet title: STAIRCASE SECTION

Project No.: 2018024	Date: 06.10.2020	Dwg. no. A4.0
Checked By: SA	Scale: AS NOTED	REV. NO. -
Drawn By: HT	Revisions: 2 03.01.2021	

Project: PROPOSED BASEMENT FINISH PLAN FOR SECOND DWELLING UNIT AT 22 MORTIMER CRESCENT, AJAX

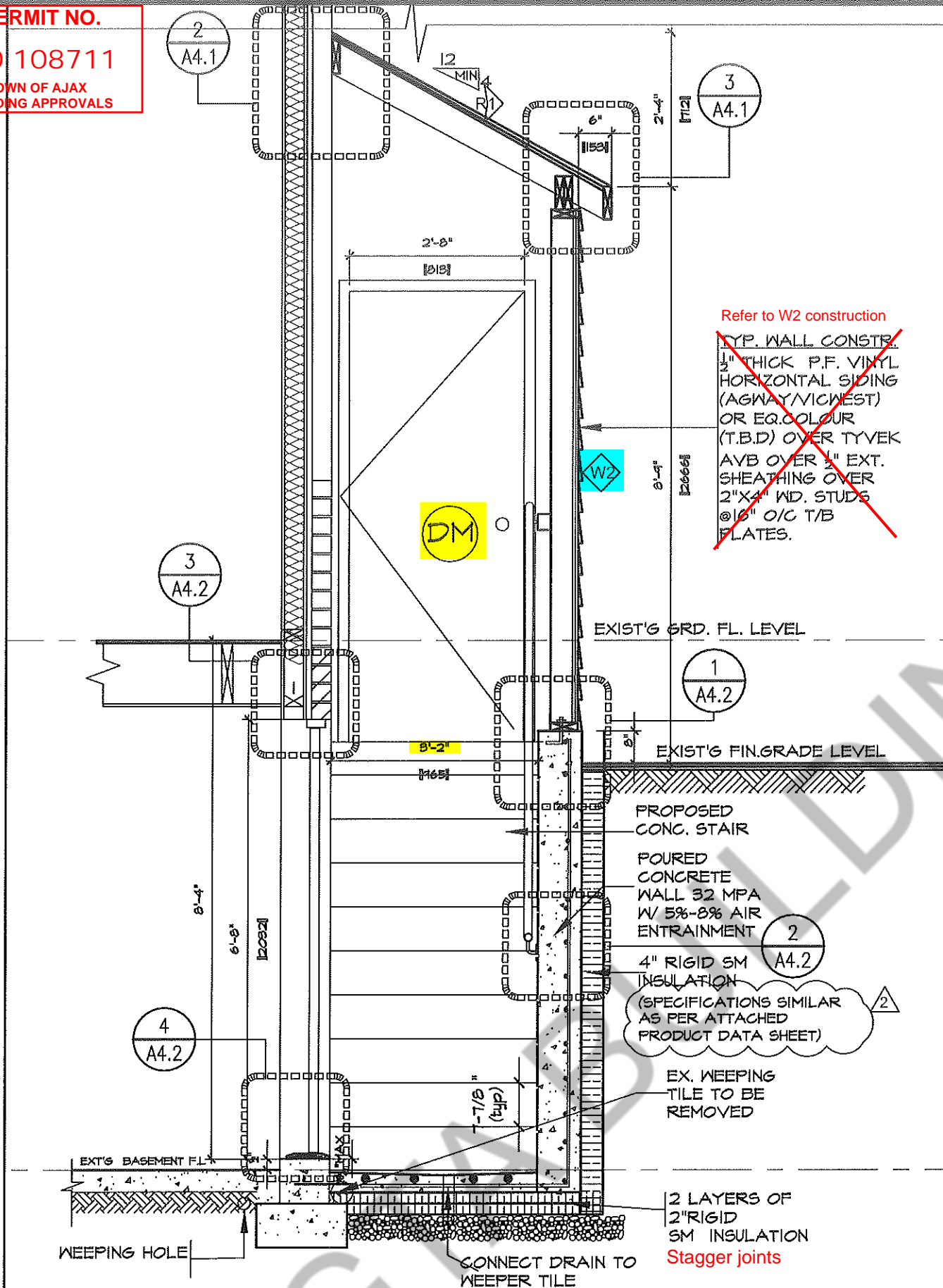
Owners: KOMAL KAMRAN
HAIDER ISHFAQ HASSAN



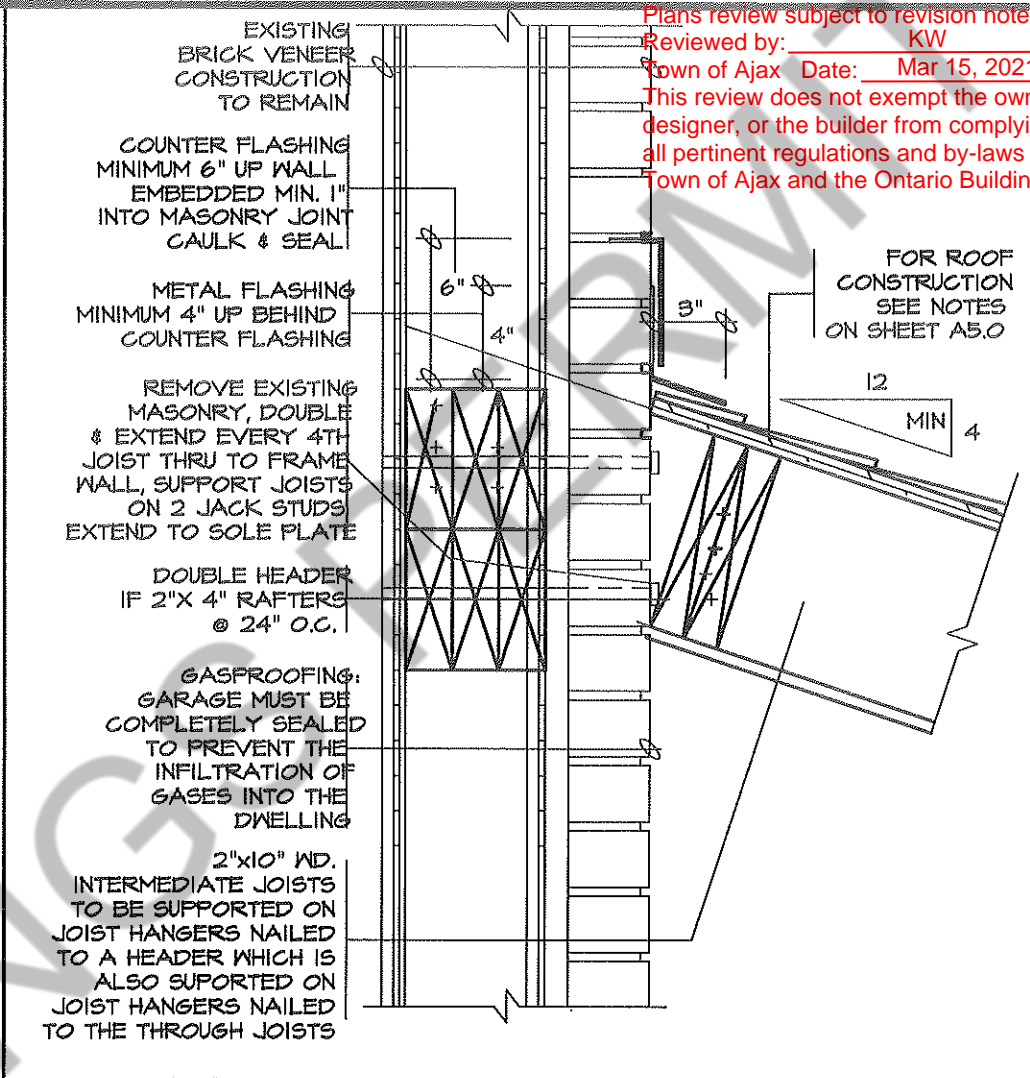
ARCHISYSTEM INC.
CONSULTING ARCHITECTS
CERTIFICATE OF PRACTICE # 5465

80 Eastern Ave. Unit A91 Brampton, ON
Canada L6W 0B6
Tel: (O) 905-858-2565 (C) 647-295-2565
www.thearchisystem.com
e-mail: archisystem@gmail.com

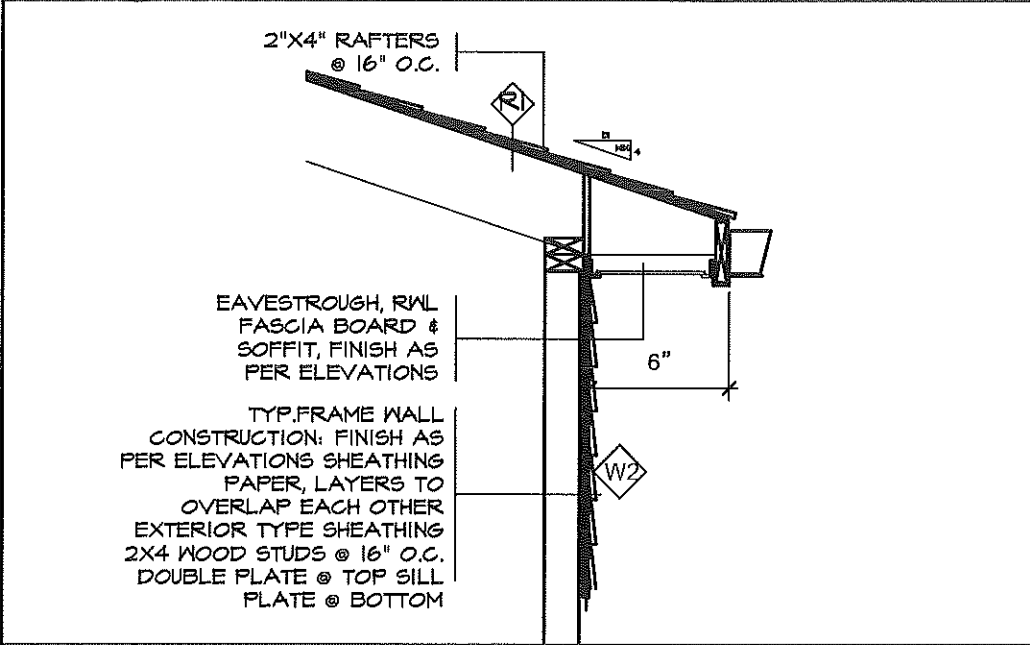
PERMIT NO.
20 108711
TOWN OF AJAX
BUILDING APPROVALS



1 STAIRCASE SECTION-2
A4.1 SCALE = 1/2" = 1'-0"



2 SECTIONAL DETAIL
A4.1 SCALE = 1 1/2" = 1'-0"



3 SECTIONAL DETAIL
A4.1 SCALE = 1/2" = 1'-0"

Plans review subject to revision noted
Reviewed by: KW
Town of Ajax Date: Mar 15, 2021
This review does not exempt the owner, designer, or the builder from complying with all pertinent regulations and by-laws of the Town of Ajax and the Ontario Building Code

Sheet title: SECTIONAL DETAILS		Project No.: 2018024	Date: 06.10.2020	A4.1	REV. NO.:
Checked By: SA	Drawn By: HT	Scale: AS NOTED	Dwg. No.		
Revisions	2	08.01.2021			

Project
PROPOSED BASEMENT FINISH PLAN FOR SECOND DWELLING UNIT AT 22 MORTIMER CRESCENT AJAX

Orders:
**KOMAL KAMRAN
HAIDER ISHFAQ HASSAN**



ARCHISYSTEM INC.
CONSULTING ARCHITECTS
CERTIFICATE OF PRACTICE # 5465

80 Eastern Ave Unit A9, Brampton, ON
Canada L6W 0B6
Tel: (O) 905-856-2565 (C) 647-295-2565
www.thearchsystem.com
e-mail: archsystem@gmail.com

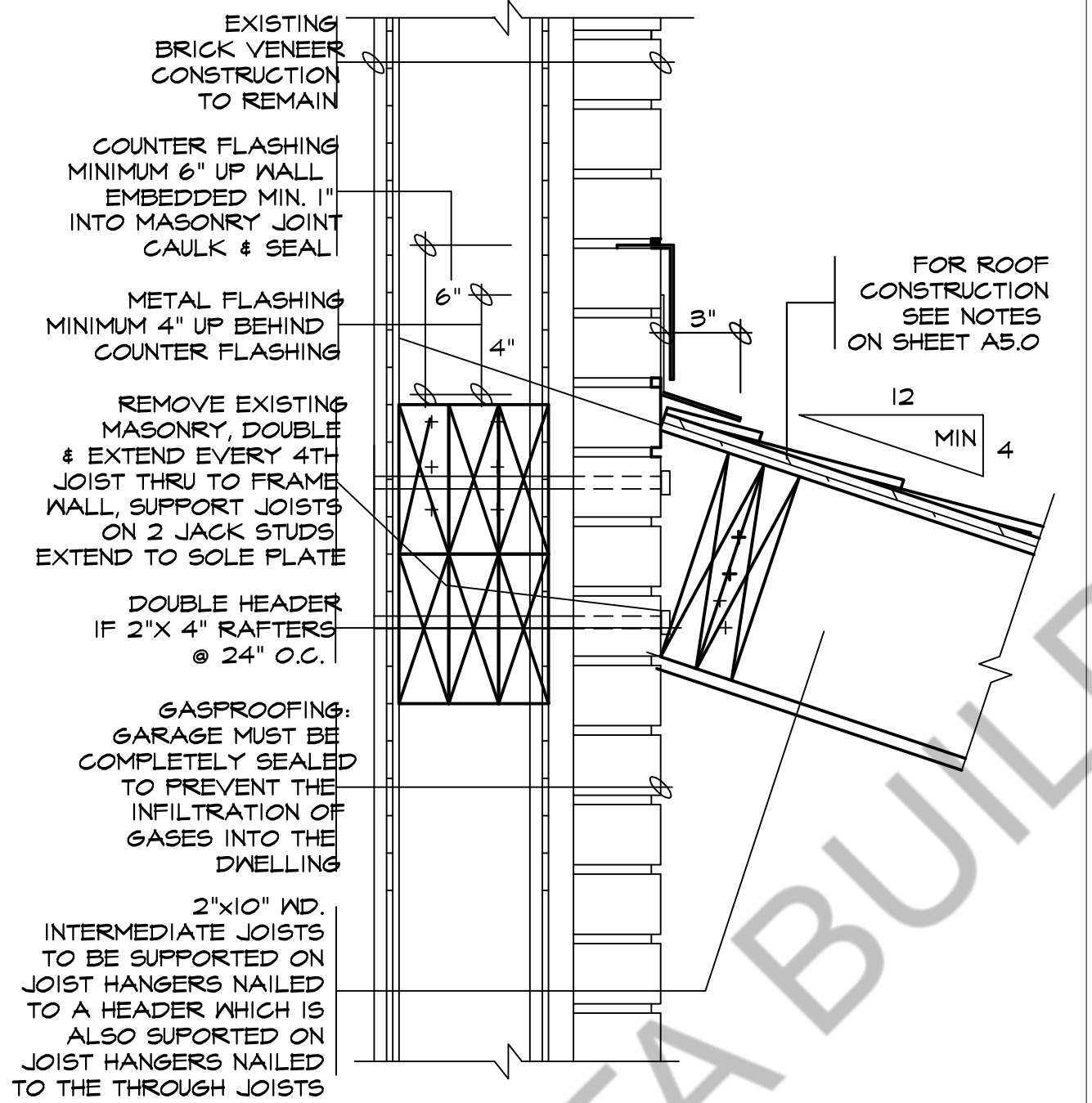
PERMIT NO.

20 108711

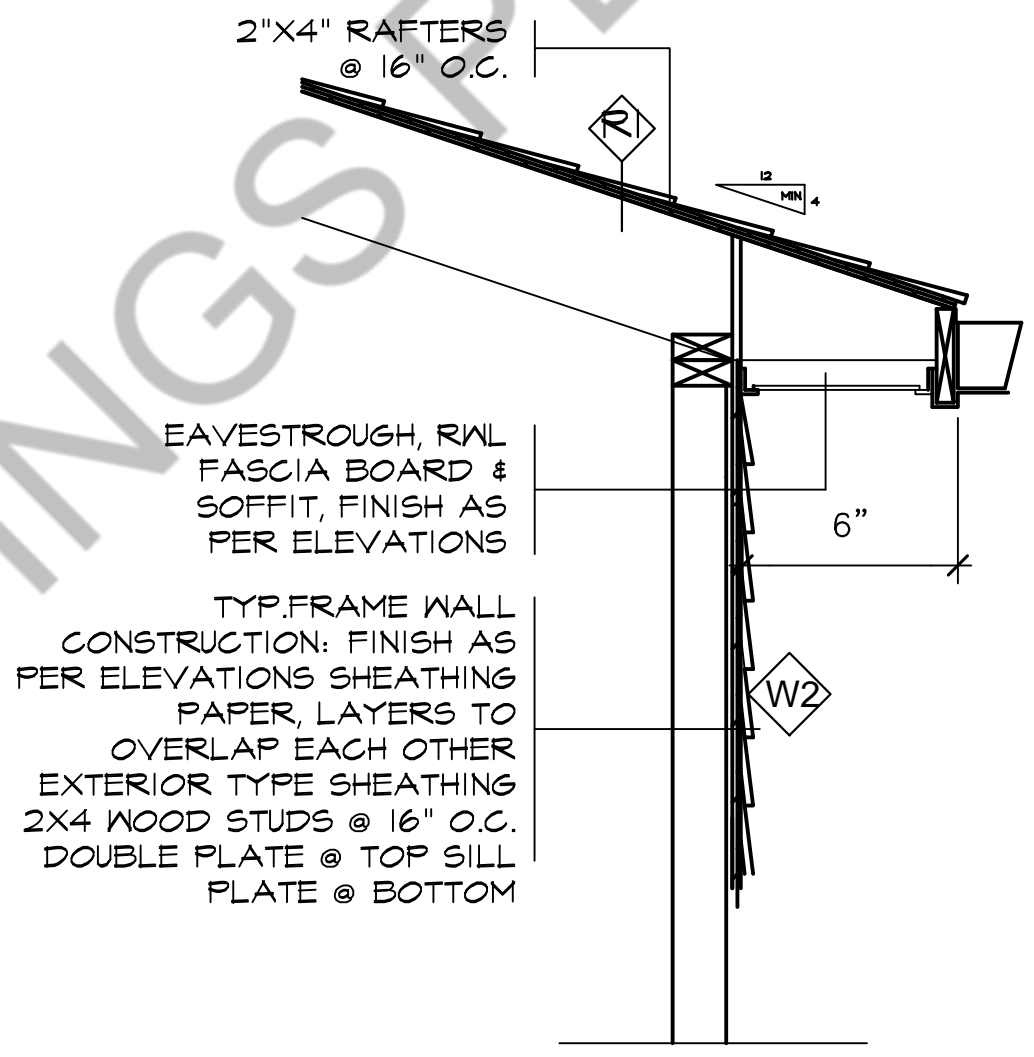
TOWN OF AJAX
BUILDINGS APPROVALS

Plans review subject to revision noted
Reviewed by: KW
Town of Ajax Date: Mar 15, 2021
This review does not exempt the owner,
designer, or the builder from complying with
all pertinent regulations and by-laws of the
Town of Ajax and the Ontario Building Code

Sheet title: SECTION DETAILS	Checked By: SA	Date: 07-10-2020	A4.2	REV. NO. -
Revisions	Drawn By: SF	Scale: AS NOTED		



1 SECTION DETAIL
A4.2 SCALE= N.T.S



2 SECTION DETAIL
A4.2 SCALE= 3/4" = 1'-0"

Project
PROPOS ENCLOSED BELOW
GRADE WALKOUT STAIR
FOR SECOND DWELLING
UNIT AT 22 MORTIMER
CRESCENT, AJAX

Owners:
KOMAL KAMRAN
HAIDER ISHFAQ HASSAN



ARCHISYSTEM INC.

CONSULTING ARCHITECTS
CERTIFICATE OF PRACTICE # 5465

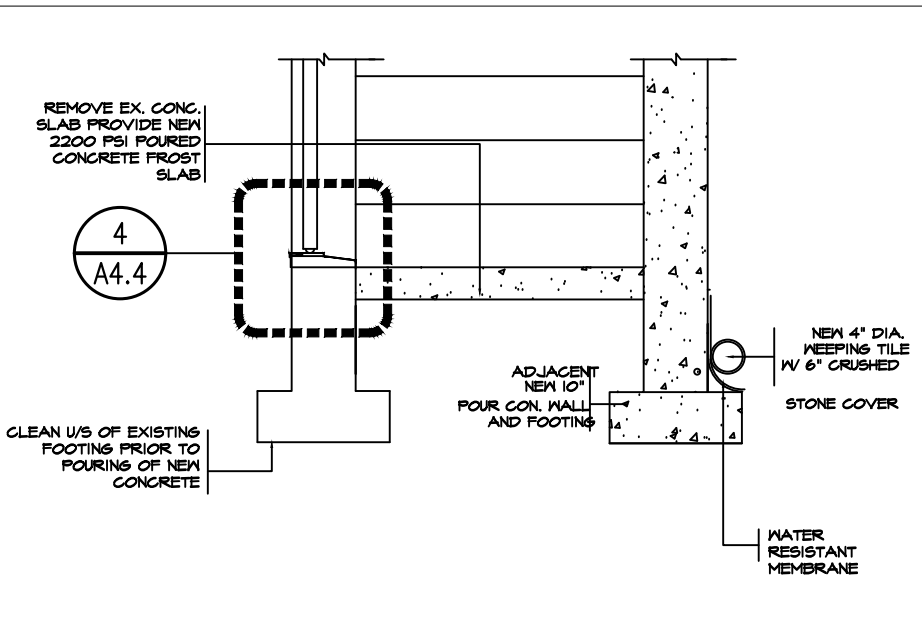
80 Eastern Ave. Unit A9, Brampton, ON.
Canada L6W 0B6
Tel: (O) 905-858-2565 (C) 647-295-2565
www.thearchisystem.com
e-mail: archisystem@gmail.com

PERMIT NO.

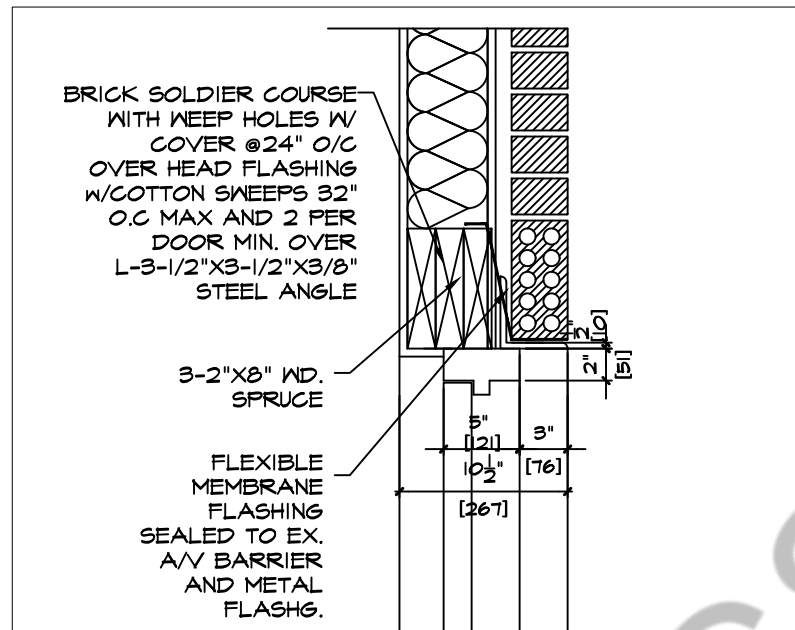
20 108711

TOWN OF AJAX
BUILDING APPROVALS

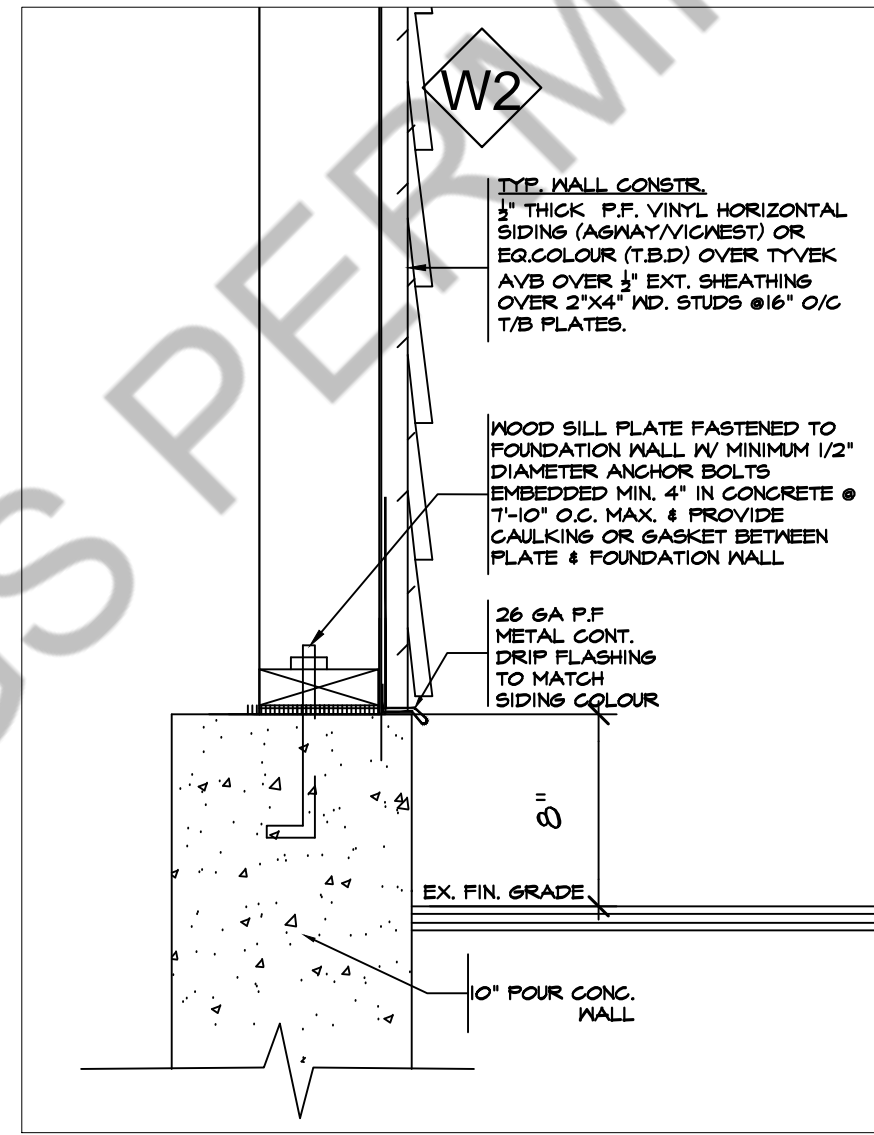
Plans review subject to revision noted
Reviewed by: KW
Town of Ajax Date: Mar 15, 2021
This review does not exempt the owner,
designer, or the builder from complying with
all pertinent regulations and by-laws of the
Town of Ajax and the Ontario Building Code



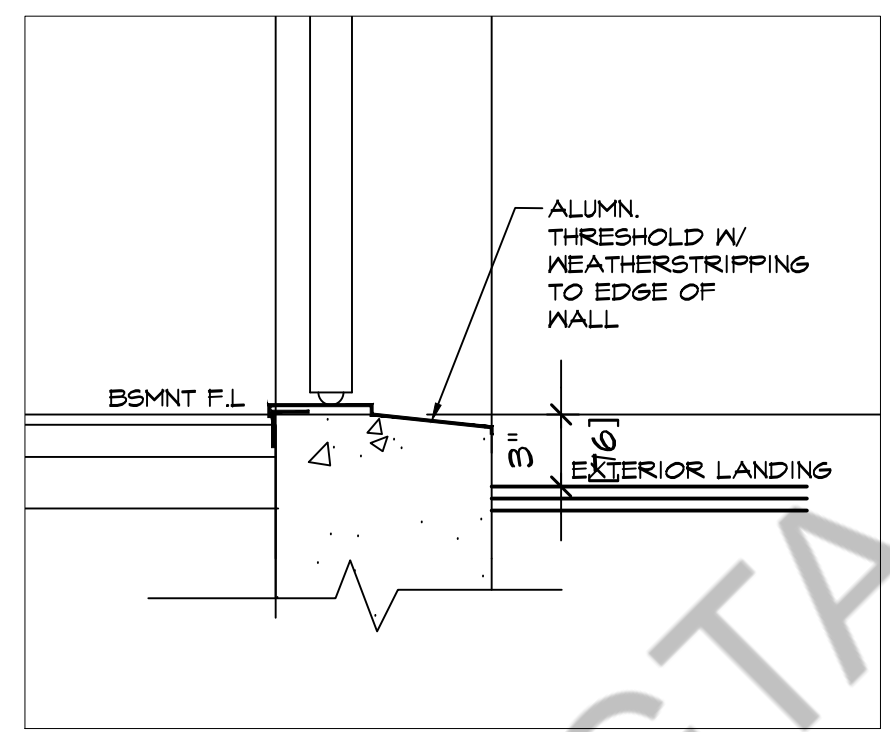
1 SECTION DETAIL
A4.4 SCALE: 1/2" = 1'-0"



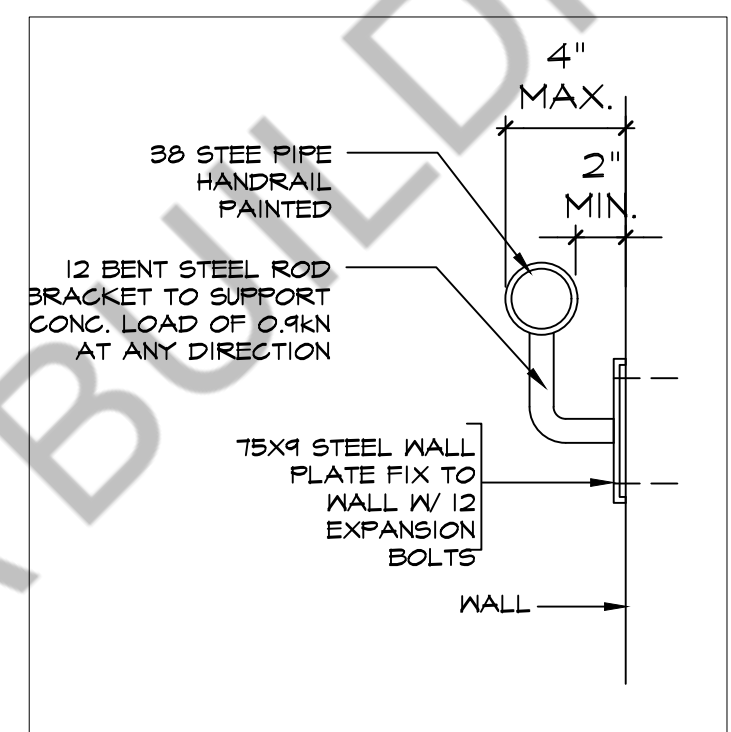
2 SECTION DETAIL
@ DOOR LINTEL
A4.4 SCALE: 1" = 1'-0"



3 SECTION DETAIL
OF SIDING
A4.4 SCALE: 1 1/2" = 1'-0"



4 SECTION DETAIL
@ DOOR THRESHOLD
A4.4 SCALE: 1-1/2" = 1'-0"



5 SECTION DETAIL
@ HAND RAIL
A4.4 3" = 1'-0"

Sheet title: SECTION DETAILS		Checked By: SA	Date: 07-10-2020	A4.4	REV. NO. -
Revisions	Drawn By: SF	Scale: AS NOTED	D'wg. no.		

Project
PROPOS ENCLOSED BELOW
GRADE WALKOUT STAIR
FOR SECOND DWELLING
UNIT AT 22 MORTIMER
CRESCENT AJAX

Owners:
KOMAL KAMRAN
HAIDER ISHFAQ HASSAN



ARCHISYSTEM INC.
CONSULTING ARCHITECTS
CERTIFICATE OF PRACTICE # 5465

80 Eastern Ave. Unit A9, Brampton, ON.
Canada L6W 0B6
Tel: (O) 905-858-2565 (C) 647-295-2565
www.thearchisystem.com
e-mail: archisystem@gmail.com

This review does not exempt the owner, designer, or the builder from complying with all pertinent regulations and by-laws of the Town of Ajax and the Ontario Building Code

PERMIT NO.
20 108711
 TOWN OF AJAX
 BUILDING APPROVALS

WALL TYPE & NOTES LEGEND

WE EXISTING 8" POUR CONC. REINFORCED WALL O/S TOWEL APPLIED WATERPROOFING LAYER PROTECTION BOARD INTERIOR SMOOTH SURFACE W/ CEMENT MORTAR PARING EXISTING R12 BATT INSULATION, 6 MIL POLY AVB

NEW POUR CONC. 10" THK. BASEMENT WALK-OUT STAIR EXTERIOR WALL WITH WATERPROOFING & PROTECTION BOARD

W2 EXTERIOR NEW 45MIN. F.R.R. EXTERIOR WALL (RE: OBC.2012 SB3-EW1b)
 1/2" P.F. METAL CLADDING (24GA) TO MATCH EXISTING OVER TYVEK 'HOUSE WRAP' AVB., OVER DENSGLASS/EXT. SHEATHING 2X6 WD. STUD FRAMING @ 16" O/C TOP/BOTTOM PLATES R24 SR MW F.R. INSUL. VB, 1/2" TYPE X GWB TAPED & SANDED

PE EXISTING N.L.B 4-1/2" PARTITION WALL IN 1/2" G.W.B B/S 2"x4" WD. STUDS @ 16" O/C TAPED, SANDED AND PAINTED.

P1 NEW N.L.B 4-1/2" PARTITION WALL IN 1/2" G.W.B B/S 2"x4" WD. STUDS @ 16" O/C TAPED, SANDED AND PAINTED.

P2 PROPOSED 30M NON-LOAD BEARING F.R. PARTITION WALL (RE: SB3 (W1C)
 30 MIN. F.R.R STC=32
 1/2" [13] TYPE-X G.W.B FINISH B/S TAPED & PLASTERED

R1 PROPOSED ROOF CONST.
 ASPHALT SHINGLES TO MATCH EXISTING #15 BUILDING PAPER
 5/8" EXT. PLYWOOD SHEATHING OVER 2"x8" WD. JOISTS @ 16" O/C

ABBREVIATIONS LEGEND

CL.	CLOSET
CLG.	CEILING
CONC.	CONCRETE
COV.	COVERED
DN	DOWN
DO	DITTO
ELECT.	ELECTRICAL
EX.	EXISTING
FLR.	FLOOR
GALV.	GALVANIZED
H.C	HOLLOW CORE
HT.	HEIGHT
I/S	INSIDE
JST.	JOIST
MAX.	MAXIMUM
MIN.	MINIMUM /MINUTE
MNTD.	MOUNTED
N.L.B	NON-LOAD BEARING
P.F.	PRE-FINISHED
STL.	STEEL
SQ.M.	SQUARE METER
SQ.FT.	SQUARE FOOT
WD.	WOOD
W.I.	WALK IN

CEILING TYPES

CE EXISTING 1/2" G.B CEILING MIN. 15M F.R.R W/ SMOOTH PLASTER AT WATER BOURNE AREAS

ER EXPOSED RAFTERS

C1 PROPOSED 45 MIN. F.R.R CEILING (RE: F10d (OBC 2012 SB3) STC.53
 * 5/8"(15.9) TYPE-X GYPSUM BOARD TAPED & PLASTERED
 * GALV.STL RESILIANIT CHANNELS @ 24" O/C (610) PERPEND. TO EXISTING FLOOR JOIST.
 * BATT INSULATION FRICTION-FIT B/W THE FLOOR JOIST

SPECIFICATIONS

1. GENERAL REQUIREMENTS

- CONFORM TO REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
- ALL MATERIALS SHALL BE FURNISHED AND ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE GRADES, OR STANDARDS OF MATERIALS, STANDARDS OF WORKMANSHIP AND MANUFACTURE'S SPECIFICATIONS LISTED OR MENTIONED.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE COMMENCING THE WORK. CONTRACTOR TO VERIFY STRUCTURE OF WALLS, FLOOR AND CEILING AT NEW ENTRANCES, WINDOWS, CANOPY AND EXTERIOR CLADDING.
- INSPECT THE EXISTING SITE AND NOTE ANY CONDITIONS WHICH WOULD AFFECT THE WORK. NO CLAIM FOR AN ADDITION TO THE CONTRACT AMOUNT WILL BE CONSIDERED RESULTING FROM FAILURE TO BECOME FAMILIAR WITH ALL, APPARENT EXISTING SITE CONDITIONS.

UNLESS OTHERWISE SPECIFIED, PROVIDE AND MAINTAIN ALL NECESSARY PROTECTION INCLUDING HOARDING, BARRICADES, WARNING LIGHTS AND SIGNS, BEFORE AND DURING DEMOLITION WORK.

PROTECT ALL MECHANICAL AND ELECTRICAL EQUIPMENT AND PIPING THAT IS TO REMAIN.

PROTECT ALL EXISTING FINISH SURFACES WHICH ARE NOT SUBJECT TO DEMOLITION.

MAINTAIN PROPER ACCESS TO PREMISES.

MAKE GOOD DAMAGE TO SUCH STRUCTURES RESULTING FROM WORK UNDER THIS SECTION AT NO COST TO OWNER.

EXERCISE CAUTION IN DISMANTLING OR DISCONNECTING WORK ADJACENT TO EXISTING WORK DESIGNATED TO REMAIN.

MAKE GOOD ANY DEMOLITION TO THE EXISTING WORK BEYOND THAT NECESSARY FOR CARRYING OUT NEW WORK, AT NO EXPENSE TO THE OWNER.

CARRY OUT DEMOLITION AS SCHEDULED, IN A ORDERLY AND CAREFUL MANNER.

AT COMPLETION OF WORK, THE PREMISES SHALL BE LEFT BROOM CLEAN.

REPORT TO THE ARCHITECT AND INTERIOR DESIGNER ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS. CONTRACTOR TO MAINTAIN AT THE JOB SITE AN UPDATED SET OF DRAWINGS AND RECORD ANY CHANGES TO BUILDING PERMIT DRAWINGS.

2. SITE WORK

- MAINTAIN PROPER ACCESS TO THE SITE. PROVIDE ADEQUATE PROTECTION TO CURBS, SIDEWALKS AND LIGHTS. MAKE GOOD ANY DAMAGE AT NO COST TO THE OWNER.
- REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ALL RUBBISH, AND SURPLUS MATERIALS RESULTING FROM THE WORK.

3. CONCRETE

- CONCRETE MATERIALS SHALL CONFORM TO REQUIREMENTS OF CAN/CSA A23.1-M90, 266-M78
- BEFORE COMMENCING WORK, ENSURE THAT SURFACES ARE ACCEPTABLE TO RECEIVE AND MAINTAIN CONCRETE FINISHING AND THAT SPECIFIED INSTALLATION WILL BE ACHIEVED.
- PATCHING CONCRETE SHALL BE THOROUGHLY COMPACTED INTO PLACE AND FINISHED IN SUCH A MANNER AS TO MATCH ADJOINING CONCRETE. RUB DOWN TO GIVE UNIFORM, SMOOTH, FLUSH, MONOLITHIC SURFACE FREE OF ALL DEFECTS IN APPEARANCE TO ARCHITECTS APPROVAL.

4. MASONRY

- MAINTAIN DIMENSIONS, LINES AND LEVELS OF EXISTING WORK.
- TAKE SPECIAL CARE OF ERECTING BLOCK WALLS TO WHICH OTHER SECTIONS WILL APPLY FINISHES. TO ENSURE TOLERANCES REQUIRED OF FOLLOWING SECTIONS CAN BE MET WITH REASONABLE CONSTRUCTION PROCEDURES (E.G. THIN SET APPLICATION OF GRANITE TILES.)
- ALL MASONRY SHALL BE PATCHED AND REPAIRED USING METHODS AND MATERIALS TO MATCH EXISTING WORK.

5. METALS

- CONFORM TO REQUIREMENTS OF CAN/CSA-G40.21 & M92 (HOT DIP GALV. PARTS)
- WORK TO BE EXECUTED BY FIRM THOROUGHLY FAMILIAR WITH LAWS, BY-LAWS AND REGULATIONS WHICH GOVERN, AND CAPABLE OF WORKMANSHIP OF BEST GRADE AND FIELD PRACTISE KNOWN TO BE RECOGNIZED MANUFACTURE'S SPECIALIZING IN THIS WORK.

PAINT PRIMER TO BE ZINC CHROMATE CONFORMING TO CGSB 1-6P-40D. FINISH COLOUR TO BE AS PER APPROVED SAMPLE BY INTERIOR DESIGNER.

6. WOOD AND PLASTICS

- MATERIALS SHALL BE CAREFULLY CHECKED, UNLOADED STORED AND HANDLED TO PREVENT DAMAGE. PROTECT MATERIALS WITH SUITABLE NON-STAINING WATERPROOF COVERINGS.
- SUPPLY ALL LABOUR, MATERIALS, EQUIPMENT, SERVICES AND PERFORM ALL OPERATIONS REQUIRED TO COMPLETE ALL ROUGH CARPENTRY WORK, TO THE FULL INTENT OF THE DRAWINGS AND AS HEREIN SPECIFIED.
- ALL INTERIOR ROUGH CARPENTRY APPLIED TO WALLS, FLOORS, AND CEILING IS TO HAVE A FLAME SPREAD RATING OF 150 OR LESS.

7. THERMAL AND MOISTURE PROTECTION

- MAINTAIN EXISTING LEVELS OF INSULATION.
- ALL MATERIALS AND METHODS USED IN APPLICATION SHALL BE IN STRICT ACCORDANCE WITH THE PRINTED INSTRUCTIONS OF THE MANUFACTURER.
- INSTALL INSULATION TO MAINTAIN CONTINUITY OF THERMAL PROTECTION TO BUILDING ELEMENTS AND SPACES.
- INSTALL LOOSE INSULATION IN LOCATIONS AND THICKNESS SHOWN, AND FOR PACKING WHERE REQUIRED TO MAINTAIN THE INTEGRITY OF THE THERMAL BARRIER. SEAL JOINTS TO PREVENT THE TRANSFER OF MOISTURE.
- SEALANTS AND COLOUR TO BE SELECTED BY INTERIOR DESIGNER.
- CLEAN JOINTS AND SPACES TO BE CAULKED AND ENSURE THEY ARE DRY AND FREE OF DUST, LOOSE MORTAR, OIL, GREASE AND OTHER FOREIGN MATERIAL. CLEAN FERROUS MATERIALS OR RUST, MILL, SCALE AND FOREIGN MATERIALS BY WIRE BRUSHING, GRINDLING OR SANDING.
- UPON COMPLETION, REMOVE MASKING AND SEALANT SMEARS AND DROPPINGS FROM ADJACENT AND OTHER SURFACES.
- PATCH AND REPAIR EXISTING WORK, REQUIRED DUE TO THE WORK OF THE CONTACT. USE THE EXACT SAME METHODS AND MATERIALS TO MATCH THE EXISTING WORK. WHERE IT IS NOT POSSIBLE, SUBMIT PROPOSALS TO THE INTERIOR DESIGNER FOR APPROVAL.

8. DOORS AND WINDOWS

STEEL DOORS AND FRAMES:

- SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH GENERAL CONDITIONS, SHOW EACH TYPE OF FRAME, DOOR, HARDWARE BLANKING, REINFORCING TAPPING AND DRILLING ARRANGEMENTS, METAL GAUGES, THICKNESS AND FINISHES. SUBMIT DOOR AND FRAME SCHEDULE IDENTIFYING EACH UNIT. APPROVAL TO BE MADE BY INTERIOR DESIGNER.
- MANUFACTURE SOLID CORE VENEERED AND PLASTIC LAMINATED FACED WOOD DOOR TO ARCHITECTURAL WOODWORK MANUFACTURERS ASSOCIATION OF CANADA LATEST REVISIONS, FOR PREMIUM GRADE SPECIALTY DOORS.
- SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH GENERAL CONDITIONS ILLUSTRATING DOOR CONSTRUCTION FOR THE INTERIOR DESIGNER TO REVIEW.

9. FINISHES

GYPSUM WALLBOARD:

- EXECUTE THE GYPSUM WALLBOARD WORK COMPLETE IN ALL RESPECTS AND FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP AFFECTING APPEARANCE AND PERFORMANCE.
- EXAMINE AND CO-ORDINATE WORK WITH THE OTHER TRADES AND ENSURE THAT ANCHORS, GROUNDS, ELECTRICAL CONDUIT, WIRING AND MECHANICAL WORK, WHICH IS TO BE INSTALLED IN OR BEHIND WORK UNDER THIS CONTRACT HAS BEEN INSTALLED, TESTED AND APPROVED.
- CONFORM TO CURRENT C.S.A. STANDARDS A82.30 AND A82.31, EXCEPT AS SPECIFIED OTHERWISE HEREIN.
- FINISHED GYPSUM WALLBOARD SURFACES SHALL BE TRUE PLANES WITHIN 1/8 INCH WHEN CHECKED WITH 12 FEET STRAIGHT EDGE PLACED ANYWHERE ON THE SURFACE. SURFACES SHALL BE FREE FROM WAVES, IRREGULATIONS AND OTHER DEFECTS. VERTICAL SURFACES, PLUMB AND TRUE TO LINE, HORIZONTAL SURFACES LEVEL.

DOOR/WINDOWS SCHEDULE

TYPE	SIZE		DESCRIPTION
	WIDTH	HEIGHT	
D1	2'-10"	6'-8"	INTERIOR TYPE PANELED DOOR WITH LATCHED LOCK, HINGES AND DOOR STOP
DF	2'-10"	6'-8"	MIN. 20 MIN. FIRE-RATED INTERIOR TYPE DOOR W/ SELF-CLOSING DEVICE. EMERGENCY EXIT TYPE I/S LOCK
DM	2'-10"	6'-8"	PROPOSED PREFINISH H.C. INSULATED METAL EXTERIOR TYPE DOOR W/ BOLTED LOCK ,ALUM. THRESHOLD AND DOOR STOP
DE	EXISTING DOOR TO REMAIN		

WINDOWS SCHEDULE

TYPE	SIZE		SILL LVL. (SL)	DESCRIPTION
	WIDTH	HEIGHT		
BW1	+2'-6"	+2'-6"		ALUMINUM FRAME THERMOPLAN DEL. GLAZED CASEMENT WINDOW PROVIDE INSECT SCREEN AT OPERABLE PANS
BW2	+3'-0"	+3'-6"		EGRESS WINDOW MINIMUM AREA OF UNOBSTRUCTED OPENING NOT LESS THAN 0.38 M2(4.1 SQ.FT.)
EXW	EXISTING WINDOW TO REMAIN			

LINTEL SCHEDULE

LINTEL	OPENINGS	SIZE
STEEL LINTEL	UPTO 54" OPENINGS	3.5"X3.5"X0.3125"
SL1	UPTO 66" OPENINGS	4.0"X3.5"X0.3125"
WOOD LINTEL	UPTO 42" OPENINGS	2-2"X6"
L1	UPTO 66" OPENINGS	2-2"X8"
	UPTO 78" OPENINGS	3-2"X10"
	UPTO 90" OPENINGS	3-2"X12"

DUCT TYPE SMOKE DETECTOR

THE AIR DUCT SMOKE DETECTOR SHALL BE A SYSTEM SENSOR INNOVAIRFLEX DNR OR EQ. INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT SMOKE DETECTOR AND DNRW WATERTIGHT NEMA4 DUCT SMOKE DETECTOR. THE DETECTOR HOUSING SHALL BE UL LISTED PER UL 268A SPECIFICALLY FOR USE IN AIR HANDLING SYSTEMS. THE FLEXIBLE HOUSING OF THE DUCT SMOKE DETECTOR FITS BOTH SQUARE AND RECTANGULAR FOOTPRINTS. THE DETECTOR SHALL OPERATE AT AIR VELOCITIES OF 100 FT/MIN TO 4000 FT/MIN (0.5 M/SEC TO 20.32 M/SEC). THE UNIT SHALL BE CAPABLE OF PROVIDING A TROUBLE SIGNAL IN THE EVENT THAT THE SENSOR COVER IS REMOVED OR IMPROPERLY INSTALLED. IT SHALL BE CAPABLE OF LOCAL TESTING VIA MAGNETIC SWITCH OR REMOTE TESTING USING THE RTS451KEY/RTS151KEY REMOTE TEST STATION. TERMINAL CONNECTIONS SHALL BE OF THE STRIP AND CLAMP METHOD SUITABLE FOR 12-18 AWG WIRING. ELECTRICAL RATINGS THE INNOVAIRFLEX SAMPLING TUBE MAY BE INSTALLED FROM THE FRONT OR BACK OF THE DETECTOR. THE TUBE LOCKS SECURELY INTO PLACE AND CAN BE REMOVED BY RELEASING THE FRONT OR REAR LOCKING TAB.

EXISTING WALL TO REMAIN

EXISTING WALL TO BE DEMOLISHED

WIRE SMOKE ALARM/ DETECTOR IN COMMON AREAS. USE INTERCONNECTED STROBE TYPE FOR ALL SLEEPING AREAS UNIT MUST CONFORM TO CAN/ULC-S531, CSA-6.19-01 & CAN/ULC-S52 & NFPA-72

CARBON MONOXIDE ALARM/DETECTOR CONFORMING TO CAN/CGA-6.19 OR UL-2034

CLG. MTD. EXHAUST FAN POWERED BY ELECT. LIGHT SWITCH CONTD. TO O/S DAMPERED VENT MIN. 50CFM

CABINET MTD. EXHAUST FAN POWERED BY ELECT. LIGHT SWITCH CONTD. TO O/S DAMPERED VENT MIN. 200 CFM

HVAC AIR GRILL AT WALL MAX.1'-0" A.F.F

RETURN-AIR GRILL AT MAX. 1'-0" A.F.F

120 VOLT DUPLEX RECEPTACLE

220 VOLT 20 AMP. OUTLET

120 VOLT DUPLEX RECEPTACLE WATERPROOF

WALL SWITCH

EMERGENCY LIGHT WITH EXIT SIGN

CEILING MOUNTED LIGHT

RECESSED INCANDESCENT POT LIGHT

MECH. EXHAUST

NOTE:
 ALL NEW ELECTRICAL SERVICES CONFORMING TO O.B.C.2012 SECTION 9.34

NOTE: PROVIDE MIN. 6" BEARING OF LINTEL AT B/S OF WALL

Sheet title: NOTES & LEGEND

Checked By: SA

Date: 07-10-2020

D'wg. no. A5.0

REV. NO. -

Drawn By: SF

Scale: AS NOTED

Revisions

1 01.29.2021

Project: PROPOSED BASEMENT FINISH PLAN FOR SECOND DWELLING UNIT AT 22 MORTIMER CRESCENT, AJAX

Owners: KOMAL KAMRAN HAIDER ISHFAQ HASSAN



ARCHISYSTEM INC.

CONSULTING ARCHITECTS
 CERTIFICATE OF PRACTICE # 5465

80 Eastern Ave. Unit A9, Brampton, ON.
 Canada L6W 0B6
 Tel: (O) 905 858-2565 (C) 647-295-2565
 www.thearchisystem.com
 e-mail: archisystem@gmail.com



INNOVATIONS FOR LIVING®

PERMIT NO.
20 108711
TOWN OF AJAX
BUILDING APPROVALS

Plans review subject to revision noted
Reviewed by: KW
Town of Ajax Date: Mar 15, 2021
This review does not exempt the owner, designer, or the builder from complying with all pertinent regulations and by-laws of the Town of Ajax and the Ontario Building Code

07 21 13.13.OCC
FOAMULAR® C-300
Extruded Polystyrene Rigid Insulation

Product Data Sheet



PRODUCT DESCRIPTION

PINK™ extruded polystyrene (XPS) rigid thermal insulation boards. FOAMULAR® C-300 extruded polystyrene rigid insulation is available in 610 mm. (24 in.) x 2240 mm. (96 in.) sizes with square or ship-lapped edges which help reduce air and water infiltration.

FOAMULAR® C-300 extruded polystyrene rigid insulation is manufactured using Owens Corning patented HYDROVAC® technology. Owens Corning uses blowing agents that meet or surpass government environmental requirements (Montreal Protocol).

Its outstanding thermal resistance (RSI 0.88/25 mm; R-5/in.), compressive strength (210 kPa; 30 psi) and hydrophobic properties (0.7% water absorption) make it an excellent insulation choice for interior, exterior, above-grade and below-grade applications:

- Below grade on the exterior side of foundation walls
- Under concrete slabs where the applied loads do not exceed 30 psi

Recommended Uses

FOAMULAR® C-300 extruded

polystyrene (XPS) rigid insulation boards can be used:

- On exterior faces of cast in place concrete and concrete masonry unit foundation walls where maximum loading due to fill materials and other imposed loads are inferior to 210 kPa (30 psi).
- For greater loads, use **Foamular® 400/600/1000** high density extruded polystyrene rigid insulation depending on calculated and foreseeable loads. Consult required soils investigation reports and an Owens Corning Canada LP regional technical support representative.

FOAMULAR® C-300 extruded polystyrene rigid insulation boards are GREENGUARD GOLD and SCS certified (refer to TECHNICAL DATA) and can contribute to obtain LEED® Certification credits when used in a building submitted to the LEED® Canada NC Green Building Council Rating System (refer to TABLE 2).

Limitations

Owens Corning Canada LP does not recommend rigid extruded polystyrene (XPS) board in the following locations:

- In soils that may contain hydrocarbons and other petroleum derivatives, and all other products that may cause corrosion and deterioration of the polystyrene boards. Consult soils investigation reports and an Owens Corning Canada regional technical support representative.

FOAMULAR® C-300 is a combustible product and its use is prohibited:

- Without an approved thermal barrier to protect it (i.e. gypsum board or other finish meeting the

requirements of the applicable building Code).

- When in contact with surfaces whose temperature may exceed 74°C or in locations where ambient temperature will constantly exceed 74°C.
- Where it is impossible to provide clearances required by Codes and Regulations (building, electrical, gas and oil) between the extruded polystyrene insulation and heat-emitting appliances, chimneys, pipes, conduits and vents to these appliances and between insulation and recessed light fixtures that are not encased in CSA-approved insulated boxes.

Other precautions to be taken:

- Protect polystyrene boards from prolonged exposure to sunlight, which may cause surface discoloration and/or deterioration; backfill as soon as insulation is completed; keep boards in storage and in its packaging until time of installation.
- Before using adhesives, sealants or other similar products with polystyrene boards, verify their compatibility with adhesive manufacturers.

Components

Polystyrene insulation is manufactured from polystyrene resin extruded into rigid boards.

Recycled materials incorporated into polystyrene board fabrication are obtained from one source:

- "Post-industrial" (or "pre-consumer") source: materials recycled from industry-wide manufacturing waste that can be recycled to fabricate polystyrene boards.



INNOVATIONS FOR LIVING®



07 21 13.13.OCC
FOAMULAR® C-300

Extruded Polystyrene Rigid Insulation

Product Data Sheet

TECHNICAL DATA

Applicable Codes and Standards

National Building Code of Canada or provincial building Code

Canadian Standards (Underwriters Laboratories of Canada (ULC))

- CAN/ULC-S701, Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering
- CAN/ULC-S102.2, Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering and Miscellaneous Materials and Assemblies

Canadian General Standards Board (CGSB)

- CGSB 71-GP-24M, Adhesive, Flexible, for Bonding Cellular Polystyrene Insulation

American Standards

- ASTM C177, Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus
- ASTM C203, Standard Test Method for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
- ASTM E96, Test Method for Water Vapor Transmission of Materials
- ASTM C518, Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- ASTM D696, Standard Test Method for Coefficient of Linear

Thermal Expansion of Plastics Between -30°C and 30°C With a Vitreous Silica Dilatometer

- ASTM D1621, Standard Test Method for Compressive Properties of Rigid Cellular Plastics
- ASTM D2126, Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging
- ASTM D2842, Standard Test Method for Water Absorption of Rigid Cellular Plastics

Health Canada/Workplace Hazardous Materials Information System (WHMIS).

Visit www.owenscorning.ca for a current copy of the Material Safety Data Sheet (MSDS) for "FOAMULAR® extruded polystyrene insulation".

Physical Properties

Canadian Construction Materials Centre (CCMC) Product Evaluation

FOAMULAR® C-300 complies to CAN/ULC S701, Type 4 and has a CCMC listing.

Codes & Standards Compliance:

- Zero Ozone Depletion Potential
- 70% Less Global Warming Potential
- Product Evaluation Listing Number **CCMC 13430-L**

Certification by Independent Third Party Agencies

– Recycled Content and Indoor Air Quality Standards

SCS Certification

(Scientific Certification Systems) for recycled materials content.

Certification based on the environmental claims certification program:

- 20% minimum certified recycled materials content distributed as follows:
-20% "post-industrial" (or "pre-consumer") recycled

TABLE I Physical Properties

Properties	Test Method	FOAMULAR® C-300 (CAN/ULC- S701, Type 4)
THERMAL RESISTANCE ⁽¹⁾ R value per inch (ft ² hr °F/BTU) Rsi value per 25 mm (m ² °C/W)	C518 or C177	5.0 0.88
COMPRESSIVE STRENGTH, min. ⁽²⁾ psi (kPa)	D1621	30 (210)
COMPRESSIVE MODULUS psi (kPa)	D1621	1350 (9308)
WATER ABSORPTION (maximum % by volume)	D2842	0.70
WATER VAPOUR PERMEANCE, max. Perm (ng/Pa.s.m ²)	E96	0.87 (50)
WATER CAPILLARITY	–	None
WATER AFFINITY	–	Hydrophobic
FLEXURAL STRENGTH, typical psi (kPa)	C203	60 (414)
LINEAR COEFFICIENT OF THERMAL EXPANSION in./in./°F (mm/mm/°C)	E228	3.5 × 10 ⁻⁵ (6.3 × 10 ⁻⁵)
DIMENSIONAL STABILITY, max. (% linear change)	D2126	1.5
MAXIMUM SERVICE TEMPERATURE °F (°C)	–	165 (74)
LIMITING OXYGEN INDEX, min	D2863	24

⁽¹⁾ Thermal resistance per inch of thickness (25 mm) ⁽²⁾ at 10% deformation or yield



INNOVATIONS FOR LIVING®

PERMIT NO.
20 108711
TOWN OF AJAX
BUILDING APPROVALS

07 21 13.13.OCC
FOAMULAR® C-300

Extruded Polystyrene Rigid Insulation

Product Data Sheet

polystyrene materials content; average for Owens Corning manufacturing facilities; rigid polystyrene insulation: FOAMULAR® brands, (Rockford IL, USA, Tallmadge OH, USA, Gresham OR, USA, Valleyfield PQ, Canada);

- “Certificate of Achievement”:
“manufactured by Owens Corning (various forms and sizes)”.

For up-to-date Certification information, go to www.scs-certified.com.

FOAMULAR® C-300 extruded polystyrene rigid insulation boards are GREENGUARD GOLD Certified to meet stringent indoor air quality standards.

“GREENGUARD GOLD Indoor Air Quality Certified”: Owens Corning™ FOAMULAR® extruded polystyrene rigid insulation. For up-to-date Certification information, go to www.ul.com/gg.

IDENTIFICATION AND SIZES

Package Identification

Each board must be adequately labelled or marked to indicate the following information:

- A. CAN/ULC-S701-Type 4
- B. Board Type
- C. Name of the manufacturer or brand name
- D. CCMC Product Evaluation Number

E. A cautionary statement as follows:

Caution: COMBUSTIBLE PRODUCT. KEEP AWAY FROM HEAT, SPARKS AND FLAME. THIS PRODUCT WILL IGNITE IF EXPOSED TO AN IGNITION SOURCE OF SUFFICIENT HEAT AND INTENSITY. PROTECTION OR THERMAL BARRIER IS REQUIRED IN ACCORDANCE WITH APPLICABLE BUILDING CODE.

Sizes and Packaging

FOAMULAR® C-300: 610 mm x 2438 mm (24 in. x 96 in.) x 25 mm, 38 mm, 51 mm, 64 mm, 76 mm and 102 mm thickness (1 in., 1.5 in., 2 in., 2.5 in., 3 in. and 4 in.).

Shipped in units containing four (4) shrink-wrapped 2 ft wide x 2 ft high x 8 ft long packages and measuring 4 ft wide x 4 ft high x 8 ft long.

Boards are available with square or ship lapped edges.

CONTRIBUTION TO LEED® CANADA CERTIFICATION

TABLE 2: Contribution of Owens Corning Canada LP's FOAMULAR® C-300 extruded polystyrene rigid insulation boards towards LEED® credits⁽¹⁾

Category and performance criteria	Requirements to meet to obtain a voluntary credit	Insulation's contribution to the performance	Additional comments
EA (Energy and Atmosphere) Credit 1 for energy performance optimization of new or existing buildings.	Anticipated energy cost reduction compared to MNECB ⁽²⁾ or ASHRAE 90.1: 1-19 points for NC, 3 to 21 points for CS, based on % reduction.	Insulation contributes significantly to the reduction of a building's energy demand. Global contribution depends on the design RSI value.	The Project Manager is responsible for the energy analysis concerning the global energy efficiency of the building (ex. LEED standard form letter).
MR (Materials and Resources) Credit 4 for recycled materials content ⁽³⁾ .	“Post-consumer” recycled content plus one half “post-industrial” recycled materials: 1 point for at least 10% and 2 points for at least 20%.	FOAMULAR® C-300 (Rockford IL, Tallmadge OH, Gresham, OR, Valleyfield, PQ: 20% post-industrial, 0% post-consumer).	Recycled content certifications by Scientific Certification Systems for FOAMULAR® C-300 extruded polystyrene rigid insulation (20% North American average).
MR (Materials and Resources) Credit 5 for locally or regionally produced materials.	Use building materials/products extracted, harvested, recovered & processed within 800 km (2,400 km if shipped by rail or water) of the final manufacturing site. Demonstrate final manufacturing site is within 800 km (2,400 km if shipped by rail or water) of project site for these products: 1 point for at least 20% and 2 points for at least 30%.	All Canadian extruded polystyrene rigid insulation boards are manufactured at the Rockford IL, Tallmadge OH, Gresham, OR, or Valleyfield, PQ plant and can contribute towards credits for this category.	Verify with local sales representatives to determine the product's origin.

APPLICATION

Safety Measures: Applicator Protection

This product is combustible and may constitute a fire risk if not used or installed properly. Although it contains a fire-suppressing agent, the product will ignite if exposed to a sufficiently intense flame. Do not expose to open flames or any other ignition source during transport, handling, storage or use.

Preparation

Ensure surfaces to be covered with insulation boards have been inspected, notably:

- substrate solidity and planarity; and
- mechanical, electrical and telecommunication service

⁽¹⁾ Refer to the LEED® Canada for new construction and major renovations, as promoted by the CaGBC.

⁽²⁾ Model National Energy Code for Buildings.

⁽³⁾ The recycled content of a material or furniture must be determined by dividing the weight of the recycled content of the item by the total weight of the whole item, then by multiplying the resulting ratio by the total cost of the item.



INNOVATIONS FOR LIVING®

PERMIT NO.
20 108711
TOWN OF AJAX
BUILDING APPROVALS

07 21 13.13.OCC
FOAMULAR® C-300

Extruded Polystyrene Rigid Insulation

Product Data Sheet

lines penetrating in or passing through voids in the exterior and foundation walls.

Installation

Carefully adjust insulation boards to obtain tight joints between each board and around electrical service boxes, piping, air ducts and framing passing through; where two layers are required, overlap all joints.

- Fastening: mechanical fasteners in concrete, concrete masonry unit or metal framing; below and above-grade use pilot hole-self-tapping screws or masonry anchors of sufficient length to penetrate minimum 25 mm into substrate with 25 mm diameter plastic or metal washers.
- Adhesive: Owens Corning recommends the use of the adhesive spot method for temporary installation prior to definitive mechanical fastening or a full coat of adhesive for permanent installation. Select optimum fastening method depending on loads applied to the insulation when backfilling according to types of materials and methods involved. Use only water-based adhesives which contain no solvents and that are compatible with extruded polystyrene rigid insulation boards.

Consult an Owens Corning Canada regional technical support representative for the appropriate fastener and adhesive selection.

AVAILABILITY AND COST

Cost Estimates

Cost estimates are readily available from a physical description consisting of drawings and a brief specification based on the information contained in this Product Data Sheet. For more information on product availability or costs, contact your regional technical support representative.

TECHNICAL SERVICES

Owens Corning Canada LP publishes many Technical Bulletins and offers in-depth consultation services and dew point analysis to help you select the appropriate products for your designs and prepare details and specifications. For more information, contact your regional technical support representative.

QUALITY CONTROL

Owens Corning Canada LP regularly submits its products to independent agencies that certify their environmental quality in terms of:

- Toxic chemical and volatile particle emissions affecting indoor air quality and the ozone layer.
- Recycled materials content.

INFORMATION CLASSIFICATION SYSTEM

Architectural Specifications

Classification in accordance with MasterFormat™ published by CSC-DCC and CSI. Selected number and title are

07 21 13.13 – Foam Board Insulation.

Data Sheet

Classification in accordance with MasterFormat published by CSC-DCC and CSI. Selected number **07 21 13.13.OCC FOAMULAR® C-300** corresponds to Owens Corning Canada LP (OCC) classification for FOAMULAR® C-300 extruded polystyrene rigid insulation boards.



INNOVATIONS FOR LIVING®

OWENS CORNING INSULATING SYSTEMS CANADA LP

Head office and sales
3450 McNicoll Avenue, Scarborough, Ontario M1V 1Z5
Tel: 1 (800) 504-8294
Fax: 1 (800) 504-9698
e-mail: salvatore.ciarlo@owenscorning.com
web site: www.owenscorning.ca



DISCLAIMER OF LIABILITY: Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Owens Corning makes no representation about, and is not responsible or liable for the accuracy or reliability of data associated with particular uses of any product described herein. Nothing contained in this bulletin shall be considered a recommendation.