PROPOSED TOWNHOUSE DEMOLITION & EXTENSION ADDRESS: 29 GATEHOUSE DRIVE, KENSINGTON VIC 3031

WORK	WORKS DONE TO DATE TO BE REVIEWED FOR COMPLIANCE 09/09/2021				
LEVEL	WORKS DESCRIPTION	SHEET NO:			
1	DEMOLITION OF THE TIMBE FRAMED FLAT ROOF OVER EX. BALCONY.	5 & 7 OF 18			
1	RE-INSULATING & RE-PLASTERING OF ALL INTERNAL WALLS & CEILINGS AFFECTED	5 OF 18			
1	ALL ROUGH-INS FOR PLUMBING & ELECTRICAL WORKS	5 OF 18			
1	ALL AFFECTED FLOOR COVERING IS REMOVED & DISPOSED.	5 OF 18			

WORK	WORKS DONE TO DATE TO BE REVIEWED FOR COMPLIANCE 09/09/2021				
LEVEL	WORKS DESCRIPTION	SHEET NO:			
2	FRAMING & FLOORING FOR PROPOSED BALCONY.	15 & 16 OF 18			
2	INSTALLATION OF DOUBLE SOLID BRICK WALL VERTICAL EXTENSION OF FIRE SEPARATION WALL FRL 60/60/60.	16 OF 18 DETAIL C			
2	RE-INSULATING & RE-PLASTERING OF ALL INTERNAL WALLS & CEILINGS AFFECTED	6 OF 18			
2	ALL ROUGH-INS FOR PLUMBING & ELECTRICAL WORKS.	6 OF 18			
2	ALL AFFECTED FLOOR COVERING IS REMOVED & DISPOSED.	6 OF 18			

GENERAL SPECIF
LOCATION MAP
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GROUND LEVEL -
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SITE COVERAGE EXISTING

ALLOTMENT ARE TOTAL FLOOR AF PERVIOUS AREA PROPSOED

CLIENT: THI Y NHI TRAN &	WB CIVIL STRUCTURAL ENGINEERS	CIVIL/STRUCTURAL ENGINEER BUSINESS LICENCING AUTHORITY	PROJECT: EXTENSION	SHEET NO: 1/18	
NGUYEN DUNG NGO	ABN: 84119322436	PRIYAN WIJEYERATNE	PROJECT ADDRESS:	SCALE: AS SHOWN	
JOB NO: TT/NN/2021	NO: 6, TENDULKAR DRIVE, ROCKBANK 3335 Mobile: 0401023328 / Ph: 03 9746 0089 Email: priyan@wbcse.com.au	PE 2448, F.I.E.(AUST)., C.P.ENG. M.Eng.(Str.), M.Tech.(Mgt.), B.Sc.(Civil)	29 GATEHOUSE DRIVE, KENSINGTON VIC 3031	DATE: 06/02/2021	GIVILSTRUGTURAL Engineers

	COPE OF BUILD - PLAN SET CONTENTS TITLE	SHEET NO
1		1 OF 18
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RAL FRA	AME - SECTION B - B	15 OF 18
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RUĊTU	RAL WORKS PLAN - BALCONY LEVEL 2	17 OF 18
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CESS TO	D LEVEL 1	
SIGN		PAGE 19
GE - 29	GATEHOUSE DRIVE, KENSINGTON	
	-	
AREA	249 sq.m.	
AREA	205.3 sq.m.	
EA	16.5 sq.m.	



WARNING ALL SERVICES SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY AND EXACT LOCATION IS TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORKS.

REV.	REMARKS/COMMENTS	DATE	APRV.

GENERAL SPECIFICATIONS

GENERAL

- G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANT'S DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER OR ARCHITECT BEFORE PROCEEDING WITH THE WORK
- G2. ALL DIMENSIONS ARE TO BE OBTAINED FROM THE ARCHITECT'S DRAWINGS OR FROM SITE. ENGINEER'S DRAWINGS MUST NOT BE SCALED.
- G3. DURING CONSTRUCTION THE BUILDER SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
- G4. MATERIAL AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH THE RELEVANT SAA CODES, BCA/NCC REQUIREMENTS UNLESS OTHERWISE NOTED IN THE PROJECT SPECIFICATION
- G5. THE APPROVAL OF A SUBSTITUTION BY THE ENGINEER IS NOT AN AUTHORIZATION FOR AN EXTRA. ANY EXTRA INVOLVED MUST BE TAKEN UP WITH THE ARCHITECT BEFORE WORK COMMENCES
- G6. THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS:-

AREA	LIVE LOAD
GARAGE	2.5 kPa
FLOOR	1.5 kPa
ROOF	1.0 kPa – TILE ROOF 0.5 kPa – METAL ROOF
BALCONY (IF APPLICABLE)	2.0 kPa

- G7. FOUNDATION MATERIAL TO BE APPROVED BEFORE POURING CONCRETE FOR A SAFE BEARING CAPACITY OF: 50kPa.WAFFLE SLAB 100kPa.....STRIP FOOTING
- G8. ALL DETAILS SHOWN IN WBCSE DRAWING SETS ARE FOR STRUCTURAL PURPOSES ONLY. THE ARCHITECT AND BUILDER MUST ENSURE ALL CONSTRUCTION REQUIREMENTS SET BY THE BCA/NCC ARE MET. THIS OFFICE SHOULD BE CONTACTED IF ANY CLARIFICATION IS REQUIRED.

STRUCTURAL STEELWORK

- S1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 1250 AND/OR AS4100.
- S2. WELDING SHALL BE PERFORMED BY AN EXPERIENCED OPERATOR IN ACCORDANCE WITH AS 1554
- S3. HIGH STRENGTH BOLTING SHALL BE IN ACCORDANCE WITH AS 1511. S4. TWO COPIES OF THE SHOP DETAIL DRAWINGS ARE TO BE SUBMITTED TO
- THE ENGINEERS AND APPROVAL OF SAME OBTAINED BEFORE COMMENCING FABRICATION. APPROVAL WILL NOT COVER DIMENSIONS OR LAYOUT.
- S5. THE BUILDER SHALL PROVIDE AND LEAVE IN PLACE UNTIL PERMANENT BRACING ELEMENTS ARE CONSTRUCTED SUCH TEMPORARY BRACING AS IS NECESSARY TO STABILIZE THE STRUCTURE DURING ERECTION.
- S6. CAMBER TO STRUCTURAL STEEL ROOF BEAMS, TRUSSES, PORTALS, ETC., TO BE 2mm FOR EVERY 1M OR SPAN UNLESS OTHERWISE NOTED.
- ALL CLEAT AND DRILLING FOR FIXING OF TIMBER MEMBERS, ETC., TO BE S7 PROVIDED BY EABRICATOR
- S8. EXCEPT WHERE OTHERWISE SHOWN CONNECTIONS SHALL HAVE 6mm CONTINUOUS FILLET WELDS, 2-M16 8.8/S BOLTS IN 1.5mm CLEARANCE HOLES AND 10mm THICK CLEAT PLATE.
- S9. CONCRETE ENCASED STEELWORK SHALL BE WRAPPED WITH SLAB FABRIC, UNLESS OTHERWISE SHOWN
- S10. STEELWORK SHALL BE THOROUGHLY WIRE BRUSHED AND GIVEN ONE SHOP COAT OF APPROVED PRIMER EXCEPT THAT NONE SHALL BE APPLIED AT CONTACT SURFACES WHERE H.S. BOLTS USED.
- S11. ALL STEEL BEAMS AND LINTELS ARE TO HAVE 100mm MIN. END BEARING UP TO 1.0m & 150mm MIN. END BEARING OVER 1.0m. UNLESS OTHERWISE NOTED
- S12. STEEL FRAMING MUST BE PROTECTED FROM CORROSION WHERE REQUIRED IN ACCORDANCE WITH BCA 2016 3.4.2.2

CONCRETE

3600

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS
- C2. CONCRETE COVER TO ALL REINFORCEMENT (FINISHES NOT INCLUDED).

ELEMENT	FORMED AND	FORMED AND	<u>NO FORM</u>
	<u>SHELTERED</u>	<u>EXPOSED</u>	<u>WORK</u>
SLABS AND WALLS	20mm	30mm	65mm
BEAMS	25mm	40mm	65mm
COLUMNS	40mm	50mm	75mm
FOOTINGS		65mm	75mm

- C3. CONCRETE SIZES SHOWN DO NOT INCLUDE FINISH AND MUST NOT BE REDUCED OR HOLED IN ANY WAY WITHOUT THE ENGINEER APPROVAL.
- DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS. ſ L C5. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE PROPERLY
- FORMED AND LOCATED TO THE APPROVAL OF THE ENGINEER. REINFORCEMENT IS SHOWN DIAGRAMMATICALLY AND NOT NECESSARILY IN
- C6. TRUE PROJECTION
- SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN. ٢7 WELDING OF REINFORCEMENT WILL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS
- C8. REINFORCEMENT SYMBOLS:-
- L LOW DUCTILITY BARS TO AS 4671 : 2001 N NORMAL DUCTILITY BARS TO AS 4671: 2001 E SEISMIC (EARTHQUAKE) DUCTILITY BAR TO AS 4671: 2001 THE NUMBER FOLLOWING THE BAR SYMBOL IS THE NOMINAL BAR DIAMETER IN MILLIMETRES
- ٢9. CAMBER TO BEAMS AND SLABS SHALL BE 2mm FOR EVERY 1M OF SPAN UNLESS OTHERWISE NOTED.
- C10. ALL CONCRETE SHALL BE GRADE 20MPa 100mm SLUMP (U.N.O.)
- C11. ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION SO AS NOT TO BE DISPLACED DURING CONCRETING ON APPROVED BAR CHAIRS AT 1.0m MAX CRS BOTH WAYS. WHERE REQUIRED PROVIDE SUPPORT BARS N16 AT 1.0M MAX CRS
- C12. CONCRETE TO BE KEPT FREE OF SUPPORTING BRICKWORK BY TWO LAYERS OF A SUITABLE MEMBRANE (MALTHOID, ETC.), OR AS DIRECTED BY THE ENGINEER. VERTICAL FACES OF CONCRETE TO BE KEPT FREE BY 10mm THICKNESS OF BITUMINOUS CANITE.
- C13. WHERE WALLS ARE NON-LOAD BEARING AT EITHER HORIZONTAL OR VERTICAL FACES THEY SHALL BE SEPARATED FROM CONCRETE OR BRICKWORK BY 10mm THICK CANITE
- C14. ALL REINFORCEMENT FOR ANY ONE POUR SHALL BE COMPLETELY PLACED AND TIED PRIOR TO INSPECTION BY THE ENGINEER OR ARCHITECT. NO CONCRETE SHALL BE POURED UNTIL REINFORCEMENT HAS BEEN INSPECTED AND APPROVED.
- C15. WHERE SLABS AND BEAMS ARE TO SUPPORT BRICKWORK OVER. FORMWORK AND PROPS MUST BE REMOVED BEFORE COMMENCEMENT OF BRICKWORK
- C16. TRENCH MESH IN BEAMS TO BE LAID CONTINUOUSLY WITH EACH LAYER BEING LAPPED FOR ITS FULL WIDTH AT INTERSECTIONS AND FOR A MINIMUM OF 500mm AT SPLICES. THE TRENCH MESH SHALL BE OVERLAPPED BY THE WIDTH OF THE FABRIC AT T & L JUNCTIONS
- C17. AS A GENERAL POLICY, WBCSE DO NOT RECOMMEND THE USE OF POLISHED CONCRETE. THE OWNER SHOULD BE MADE AWARE BY THE BUILDING DESIGNER AND BUILDER THAT CONCRETE IS A NATURAL MATERIAL AND THE POSSIBILITY OF SURFACE CRACK FORMATION MAY OCCUR AND CANNOT BE GUARANTEED EITHER IN THE SHORT OR LONG TERM, WE HIGHLY RECOMMEND CURING THE SLAB USING AN APPROVED CURING SPRAYED MEMBRANE
- C18. WHEN NEW FOOTING IS ABUTTED TO THE ADJACENT STRUCTURES OF NEIGHBOURING BUILDING AT BOUNDARY, A MINIMUM OF 10mm THICK "ABLEFLEX" (OR APPROVED EQUIVALENT) MUST BE PLACED BETWEEN STRUCTURES (UNLESS OTHERWISE NOTED ON ENGINEERING DRAWINGS TYPICAL

BRICKWORK

- B1. THE UNCONFINED COMPRESSIVE STRENGTH OF A BRICK UNIT TO BE MIN. OF 15MPa AND COMPRESSIVE STRENGTH OF MASONRY TO BE A MIN. OF 5.4 MPa B2 THE MORTAR MIX FOR BRICKWORK SHALL BE 1:1:6
- B3. FOR NON-LOAD BEARING WALLS SEE NOTE C13.
- ARTICULATION (OR EXPANSION) JOINT SPACING MUST BE IN ACCORDANCE WITH AS4773.1 - 2015, AS4773.2 - 2015 & TECHNICAL NOTE 61 (AUG 2008) FOR ARTICULATED WALLING UNLESS NOTED OTHERWISE. B5. ALL WALL TIES MUST BE GALVANISED.

STRUCTURAL TIMBER

- T1. ALL TIMBER FRAMING IS TO BE IN ACCORDANCE WITH AS 1684-2010 RESIDENTIAL TIMBER FRAMED CONSTRUCTION.
- Τ2. ALL TIMBER STRESS GRADES NOMINATED SHALL BE IN ACCORDANCE WITH THE RELEVANT CODES AND MEANS THE STRUCTURAL QUALITY OF A TIMBER SECTION (REFER TO AS 1720).
- T3. TIMBER SHALL BE STORED AND HANDLED SO AS NOT TO BE DETRIMENTAL TO THEIR PERFORMANCE OR DAMAGE THEM. REFER APPENDIX H AS 1684-2:2010
- T4. ALL TIMBER SHALL BE DRY, IE: LESS THAN 15% MOISTURE CONTENT AT THE TIME OF CONSTRUCTION AND SHALL BE PROTECTED AND/OR TREATED AS NOTED.
- T5. ALL TIMBER BEAMS AND LINTELS ARE TO BEAR ON DOUBLE STUDS (ONE JAMB AND ONE BEARING STUD), UNLESS OTHERWISE NOTED.
- BEAMS/STUDS HAVING MORE THAN 1 MEMBER TO BE NAIL LAMINATED T6 TOGETHER IN ACCORDANCE WITH AS 1684-2010
- Τ7 ALL EXPOSED TIMBER TREATMENT MUST BE IN ACCORDANCE WITH EXPOSURE CLASSIFICATION AS1684.2 TABLE B1, MINIMUM H3 TREATED OR DURABLE SPECIES TO BE ADOPTED TYPICAL U.N.O.

FRAMING

- F1. PROVIDE SOLID BLOCKING (45 WIDE x D-25 DEEP) SECURELY NAILED TO JOISTS/RAFTERS (D=DEPTH OF JOIST/RAFTER) AT 1800 MAX. CRS.
 - ALL EXTERNAL OR EXPOSED STEELWORK TO BE HOT DIP GALVANISED.
- WATERPROOFING TO ARCHITECTS DETAILS. F3.
- ALL TIMBER FRAMING & BRACING NOT SHOWN TO COMPLY WITH AS1684 F4 TIMBER FRAMING MANUAL.
- E5 ALL BRICKWORK LINTELS TO ARCHITECTS DETAILS. ALL BRICKWORK LINTELS TO COMPLY WITH F.3.3.3.5 OF B.C.A 2012 VOLUME 2.
- ALL BEAMS/GIRDER & HIP TRUSSES TO BE SUPPORTED ON DOUBLE STUDS F6. FACH END UN O
- F7 ALL LINTELS TO BE SUPPORTED ON SINGLE STUD AND JAMB STUD U.N.O.
- F8. ALL TRUSSES & WALL FRAMES TO MANUFACTURER'S DESIGN & DETAILS. F9
- TRUSS DIRECTION ASSUMED AS SHOWN (IF APPLICABLE). CONTACT THIS OFFICE IF DIFFERENT TRUSS LAYOUT IS USED SO LINTELS ETC CAN BE REDESIGNED (IE REQUIRED)
- F10. ALL TIMBER LINTELS TO BE DESIGNED BY THE TRUSS MANUFACTURER. TYPICAL U.N.O
- F11. BUILDER TO SUPPLY MANUFACTURERS TRUSS LAYOUT TO THIS OFFICE FOR APPROVAL PRIOR TO CONSTRUCTION. TRUSS DESIGN MUST BE IN ACCORDANCE WITH AS1720 AND AS1684. TRUSS FABRICATOR/BUILDER IS RESPONSIBLE FOR PROVIDING ADEQUATE ROOF/WALL BRACING TO ENSURE STABILITY OF THE STRUCTURE IN ACCORDANCE TO AS1684
- F12. ALL INTERNAL WALLS TO BE NON-LOAD BEARING (TYPICAL) UNLESS HATCHED OTHERWISE ON PLANS.

INSPECTIONS

ALL STRUCTURAL WORK MUST BE INSPECTED AND APPROVED IN WRITING PRIOR TO ANY WORK PROCEEDING. 48 HOUR MIN. NOTICE IS REQUIRED FOR ALL INSPECTIONS

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CLIENT: THI Y NHI TRAN &	WB CIVIL STRUCTURAL ENGINEERS	CIVIL/STRUCTURAL ENGINEER BUSINESS LICENCING AUTHORITY	PROJECT: EXTENSION	SHEET NO: 2/18
NGUYEN DUNG NGO	ABN: 84119322436	PRIYAN WIJEYERATNE	PROJECT ADDRESS:	SCALE: AS SHOWN
JOB NO: TT/NN/2021	NO: 6, TENDULKAR DRIVE, ROCKBANK 3335 Mobile: 0401023328 / Ph: 03 9746 0089 Email: priyan@wbcse.com.au	PE 2448, F.I.E.(AUST)., C.P.ENG. M.Eng.(Str.), M.Tech.(Mgt.), B.Sc.(Civil)	29 GATEHOUSE DRIVE, KENSINGTON VIC 3031	DATE: 06/02/2021

SITE DRAINAGE

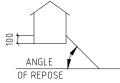
D1. AT THE TIME OF THE PREPARATION OF THIS DOCUMENT, IF THE DRAINAGE DESIGN WAS NOT PREPARED OR CERTIFIED BY THIS OFFICE THEN THE DRAINAGE SYSTEM MAY NEED TO BE DOCUMENTED BY A SUITABLY QUALIFIED PERSON TO COMPLY WITH AS2870-2011. THE DRAINAGE DESIGNER SHOULD ENSURE THAT THE ELEMENTS OF THE DRAINAGE SYSTEM DESIGN ARE CONSIDERED WITH RESPECT TO THE PROPOSED FOOTING SYSTEM.WE RECOMMEND THAT WBCSE

OR AN EQUIVALENT CERTIFIED PRACTITIONER, REVIEW ALL THE DOCUMENTATION TO ENSURE COMPLIANCE.

D2. SITES SHOULD BE DRAINED SO THAT WATER CANNOT POND AGAINST OR NEAR THE HOUSE. THE GROUND IMMEDIATELY ADJACENT TO THE HOUSE SHOULD BE GRADED TO FALL 50mm OVER THE FIRST METRE.WHERE THIS IS IMPRACTICABLE (IE: ON SEVERAL SLOPING SITES) USE A.G. DRAINS ADJACENT TO FOOTINGS WHERE THE GROUND FALLS TOWARDS THE BUILDING

FOOTING: ANGLE OF REPOSE

- A1. FOOTING MUST NOT UNDERMINE EXISTING FOOTING OR BE UNDERMINED BY PROPOSED EXCAVATION.
- A2. ENSURE ADEQUATE ANGLE OF REPOSE AT ALL TIMES (REFER DETAILS BELOW)
- A3. NOTIFY THIS OFFICE IF FOOTING UNDERMINE OCCURS.
- A4. PIPE DEPTH & LOCATION MUST BE CONFIRMED PRIOR TO CONSTRUCTION.



ANGLE OF REPOSE 30° MAX IN SAND/SILT 45° MAX IN CLAY 60° MAX IN ROCK

OH & SAFETY

01. FOR ALL WORKS CONDUCTED ON THIS PROJECT, THE BUILDER SHALL HAVE ALL APPROPRIATE AND SUFFICIENT SAFETY MEASURES AND PROCEDURES IN PLACE

02 DEEP TRENCHES MAY EXIST ON THIS SITE BUILDER TO ENSURE NECESSARY SAFETY MEASURES ARE TAKEN TO PREVENT FALL AND TRIPPING HAZARDS ARE ELIMINATED

03. FOR LARGE SPAN BEAMS (SAY6000mm), BUILDER TO ENSURE SEAT PLATES/ANGLES TO STEEL COLUMNS FOR MAJOR BEAMS AND LINTELS ARE INSTALLED FOR SAFER CONNECTION, BOLTING AND SITE WELDING. 04. ADEQUATE PROPPING MAY BE REQUIRED FOR ANY RETAINING/LOAD

BEARING WALLS ON BOUNDARIES. TEMPORARY SHORING MAY BE REQUIRED. 05. PROVISIONS SHALL BE MADE FOR APPROPRIATE DISTANCE FOR ROOF BATTENS/RAFTERS TO PROVIDE A SAFE WORKING PLATFORM DURING ROOF INSTALLATION AND WORKING AT HEIGHTS.

06. BUILDER MAY NEED TO BE AWARE OF APPROPRIATE MEASURES TO DEAL WITH HAZARDOUS MATERIALS SUCH AS ASBESTOS THAT MAY BE FOUND IN SERVICE PITS.

07. IF A CRANE IS REQUIRED. THE BUILDER IS TO PROVIDE ADEQUATE SAFETY MEASURES FOR CRANE USAGE AROUND POWER LINES.

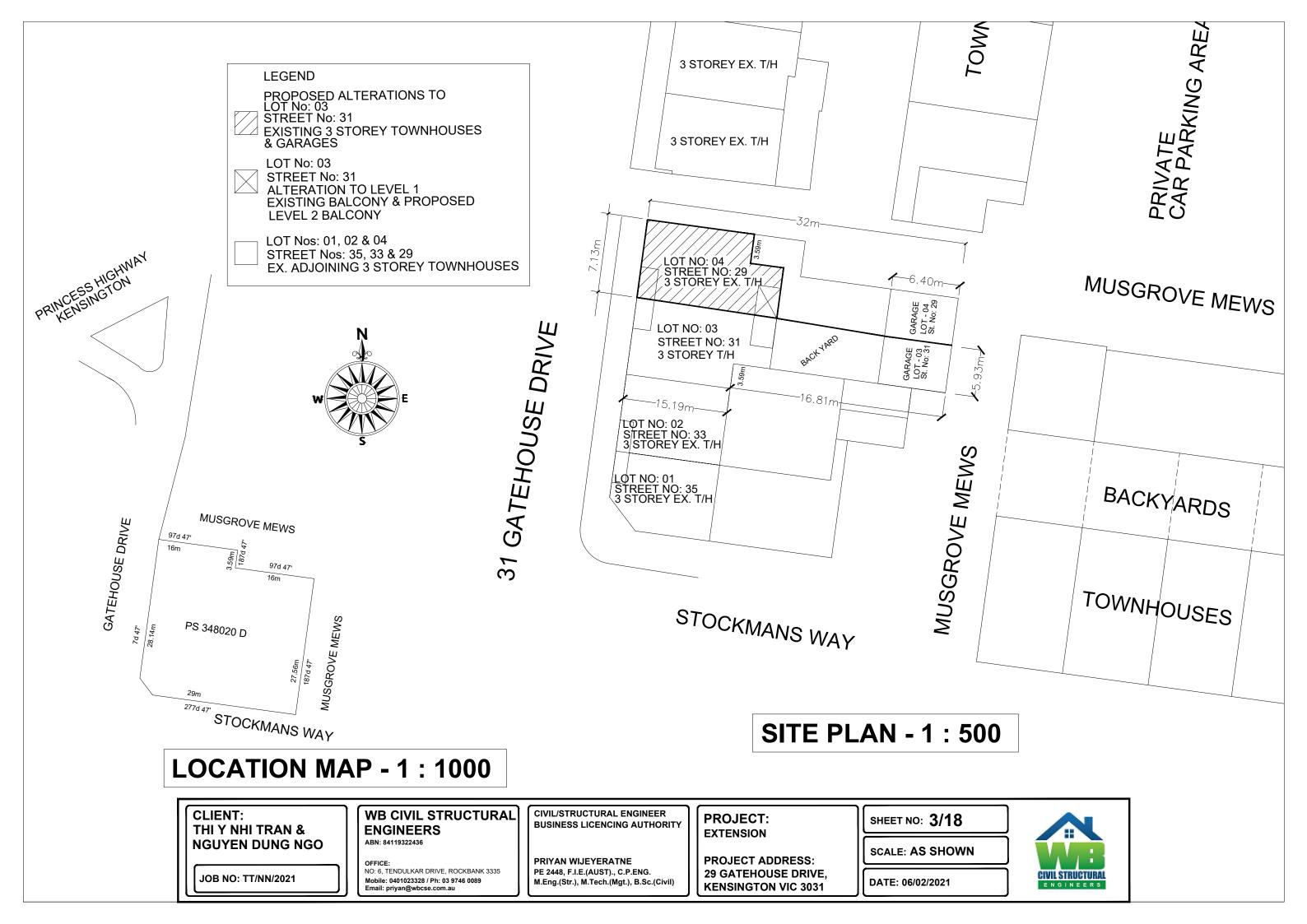
08. IF ANY DIGGING IS REQUIRED OUTSIDE OF SITE BOUNDARIES, INFORMATION REGARDING EXISTING COUNCIL ASSETS NEED TO BE SOUGHT FROM "DIAL BEFORE YOU DIG"

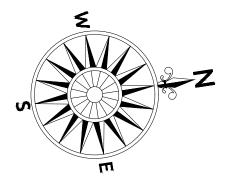
09. THE SAFETY CONCERNS AND HAZARDS IDENTIFIED ABOVE REPRESENT COMMONLY OCCURRING RISKS. THE LIST DOES NOT COVER THE FULL RANGE OF RISK AVOIDANCE MEASURES REQUIRED.

DOWNPIPE & GUTTER NOTES:

THEY ARE TO BE IN ACCORDANCE WITH NCC PART 3.5.2. AS 00.3 AND AS 3500.5. A DOWNPIPE MUST NOT SERVE MORE AN 12m OF GUTTER LENGTH AND BE LOCATED WITHIN 1.2m ROM A VALLEY. WHERE DOWNPIPES ARE LOCATED GREATER IAN 1.2m FROM A VALLEY, PROVISION FOR OVERFLOW MUST MADE TO THE GUTTER. EAVE GUTTERS ARE TO BE PROVIDED ITH OVERFLOW PROVISIONS ALONG THE LENGTH OF THE JTTERING IN ACCORDANCE WITH AS 3500.3

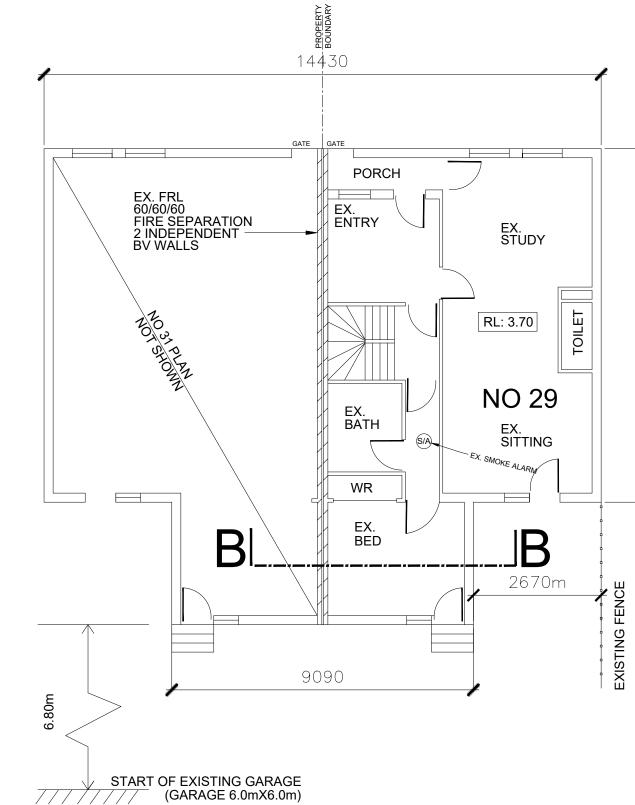






NOTATIONS USED

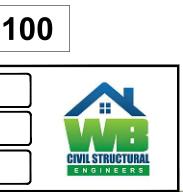
EX. - EXISTING EXT. EXTERNAL NO. - NUMBER **WR - WARDROBE** SA - SMOKE ALARM **GL - GROUND LEVEL** D/B/WALL - DOUBLE BRICK WALL **BV - BRICK VENEER** LDRY - LAUNDRY W/WIN - WINDOW D - DOOR **RL - REDUCED LEVEL DP - DOWN PIPE** LPD - LEGAL POINT OF DISCHARGE F17 - TIMBER STRESS GRADE **NCC - NATIONAL CONSTRUCTION CODE** C/C - CENTRE TO CENTRE sq.m. - SQUARE METER m - METERS mm - MILLIMETERS

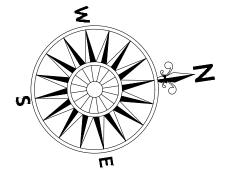


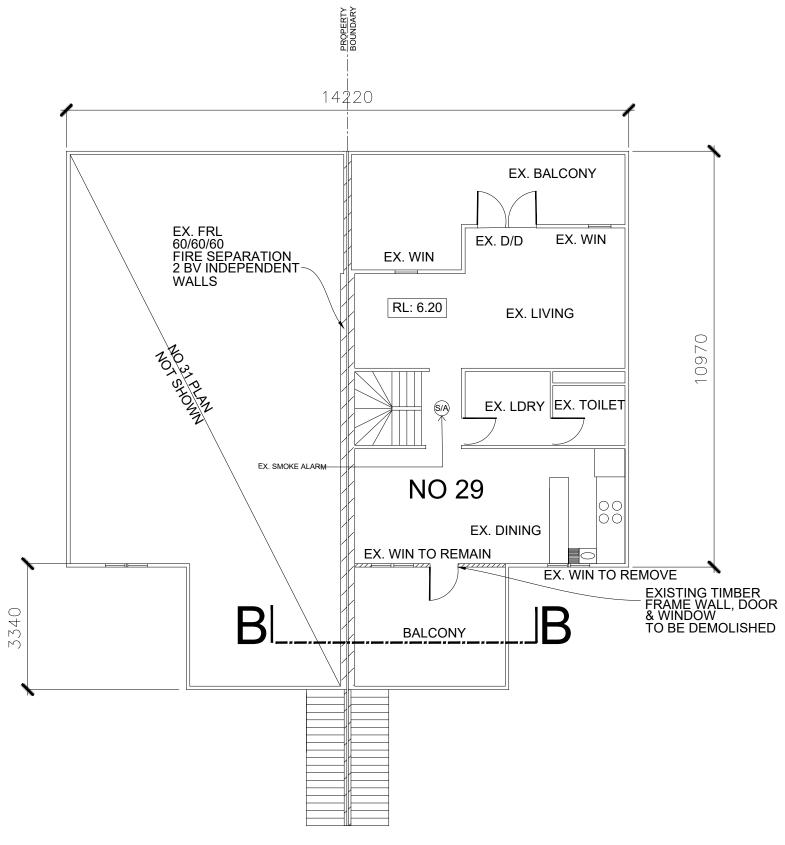
GROUND LEVEL - EXISTING PLAN - 1 : 100

CLIENT: THI Y NHI TRAN &	WB CIVIL STRUCTURAL ENGINEERS	CIVIL/STRUCTURAL ENGINEER BUSINESS LICENCING AUTHORITY	PROJECT: EXTENSION	SHEET NO: 4/18
NGUYEN DUNG NGO	ABN: 84119322436 OFFICE:	PRIYAN WIJEYERATNE	PROJECT ADDRESS:	SCALE: AS SHOWN
JOB NO: TT/NN/2021	NO: 6, TENDULKAR DRIVE, ROCKBANK 3335 Mobile: 0401023328 / Ph: 03 9746 0089 Email: priyan@wbcse.com.au	PE 2448, F.I.E.(AUST)., C.P.ENG. M.Eng.(Str.), M.Tech.(Mgt.), B.Sc.(Civil)	29 GATEHOUSE DRIVE, KENSINGTON VIC 3031	DATE: 06/02/2021







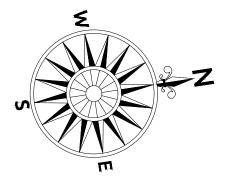


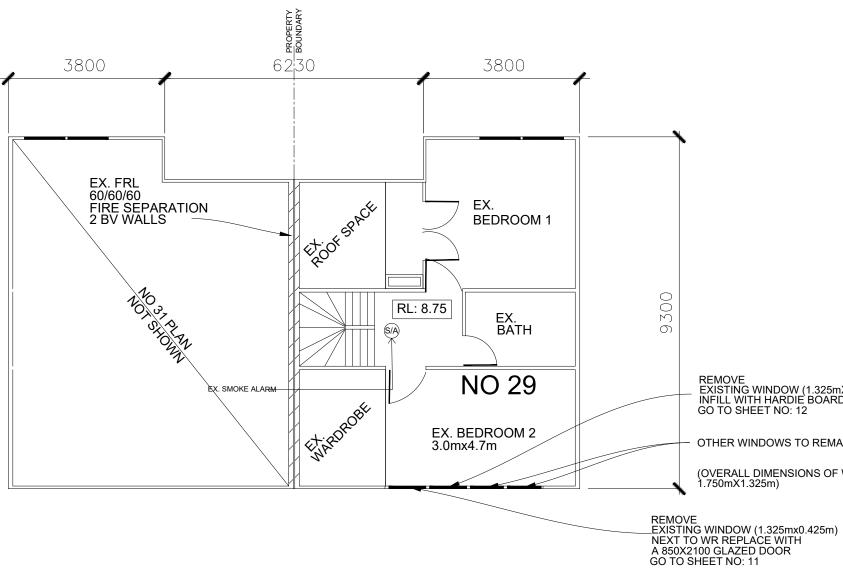
LEVEL 1 - EXISTING & DEMOLITION PLAN - 1 : 100

 CLIENT: THI Y NHI TRAN &	WB CIVIL STRUCTURAL ENGINEERS	CIVIL/STRUCTURAL ENGINEER BUSINESS LICENCING AUTHORITY	PROJECT: EXTENSION	SHEET NO: 5/18
IGUYEN DUNG NGO	ABN: 84119322436 OFFICE:	PRIYAN WIJEYERATNE	PROJECT ADDRESS:	SCALE: AS SHOWN
JOB NO: TT/NN/2021	NO: 6, TENDULKAR DRIVE, ROCKBANK 3335 Mobile: 0401023328 / Ph: 03 9746 0089 Email: priyan@wbcse.com.au	PE 2448, F.I.E.(AUST)., C.P.ENG. M.Eng.(Str.), M.Tech.(Mgt.), B.Sc.(Civil)	29 GATEHOUSE DRIVE, KENSINGTON VIC 3031	DATE: 06/02/2021









LEVEL 2 - EXISTING & DEMOLITION PLAN - 1 :100

CLIENT: THI Y NHI TRAN &	WB CIVIL STRUCTURAL ENGINEERS	CIVIL/STRUCTURAL ENGINEER BUSINESS LICENCING AUTHORITY	PROJECT: EXTENSION	SHEET NO: 6/18
	ABN: 84119322436 OFFICE:	PRIYAN WIJEYERATNE	PROJECT ADDRESS:	SCALE: AS SHOWN
JOB NO: TT/NN/2021	NO: 6, TENDULKAR DRIVE, ROCKBANK 3335 Mobile: 0401023328 / Ph: 03 9746 0089 Email: priyan@wbcse.com.au	PE 2448, F.I.E.(AUST)., C.P.ENG. M.Eng.(Str.), M.Tech.(Mgt.), B.Sc.(Civil)	29 GATEHOUSE DRIVE, KENSINGTON VIC 3031	DATE: 06/02/2021

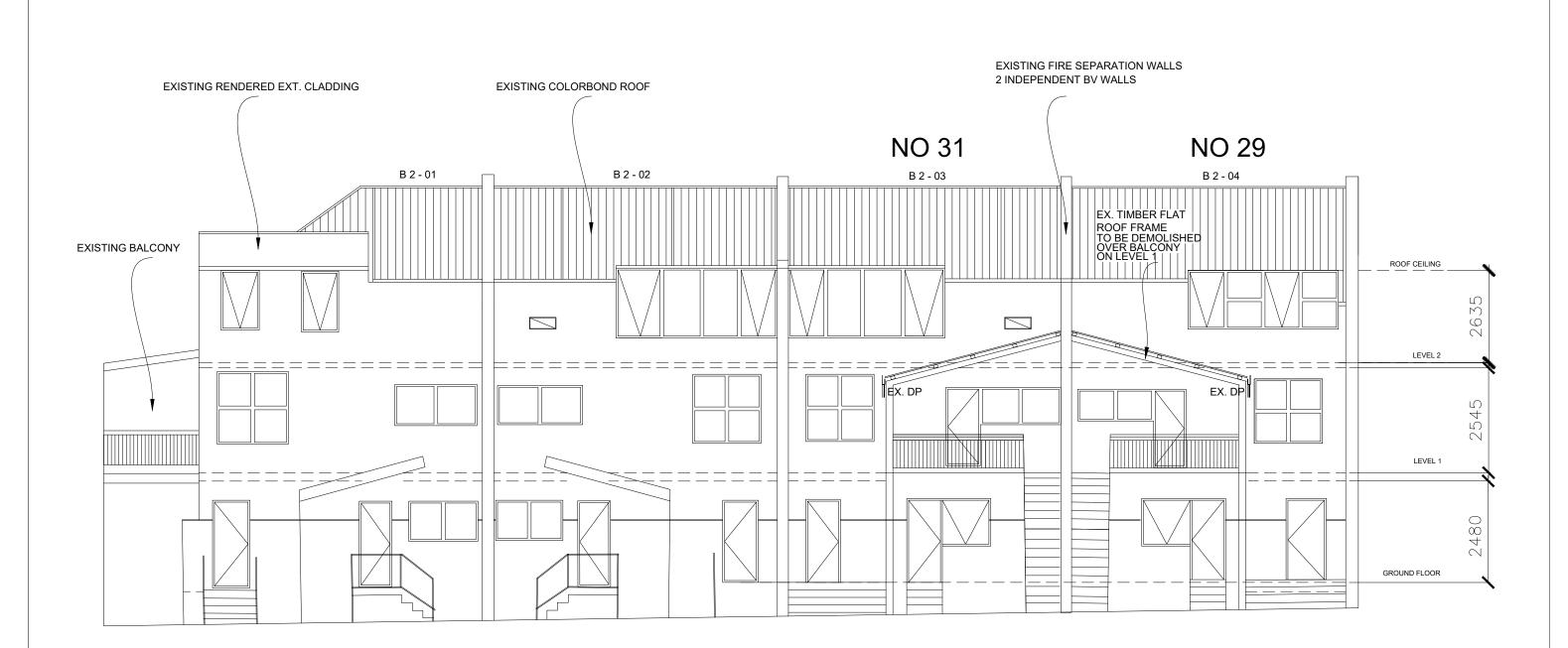




(OVERALL DIMENSIONS OF WINDOWS 1.750mX1.325m)

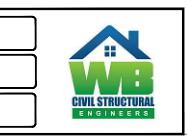
OTHER WINDOWS TO REMAIN

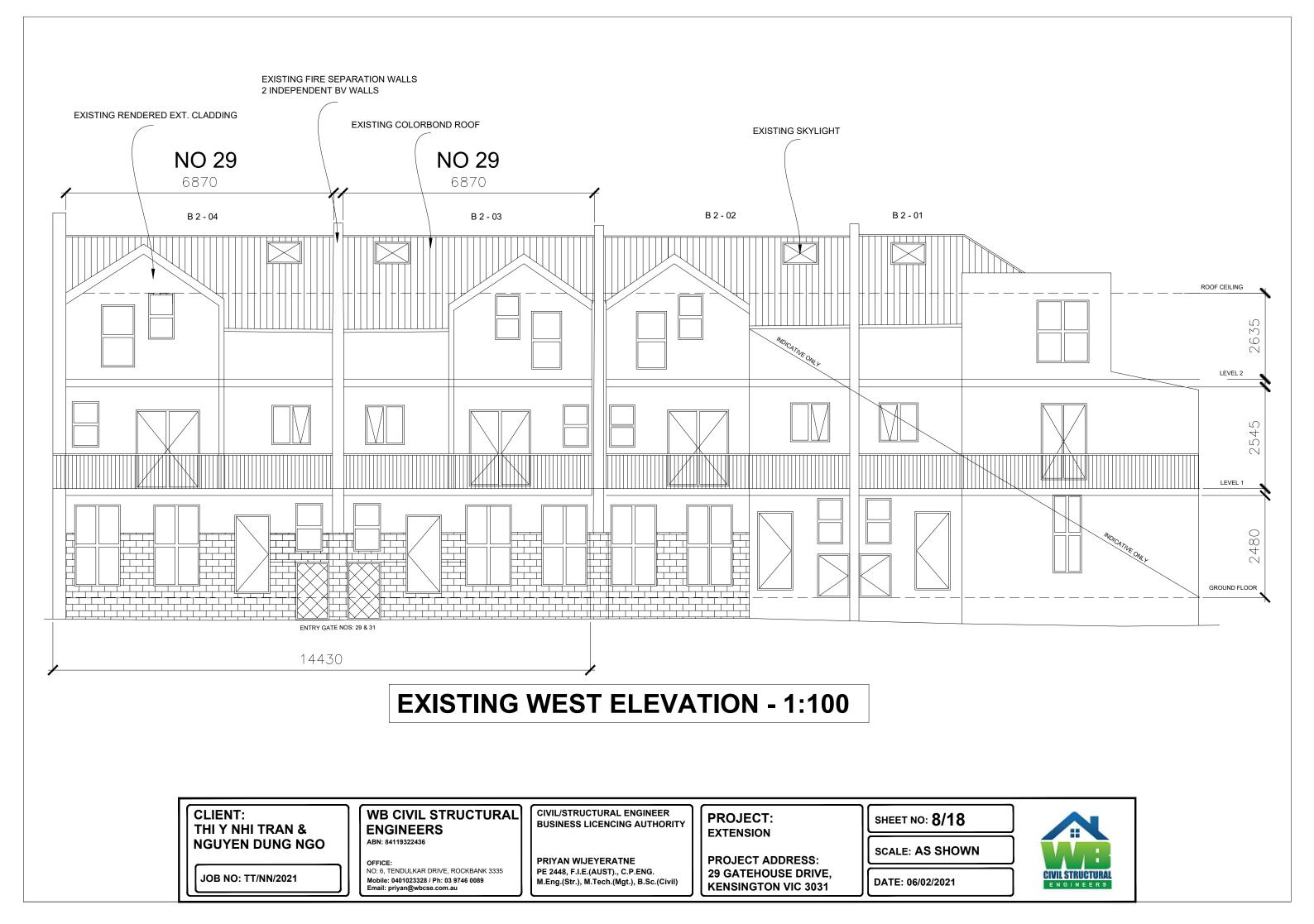
REMOVE EXISTING WINDOW (1.325mX0.425m) INFILL WITH HARDIE BOARDS GO TO SHEET NO: 12

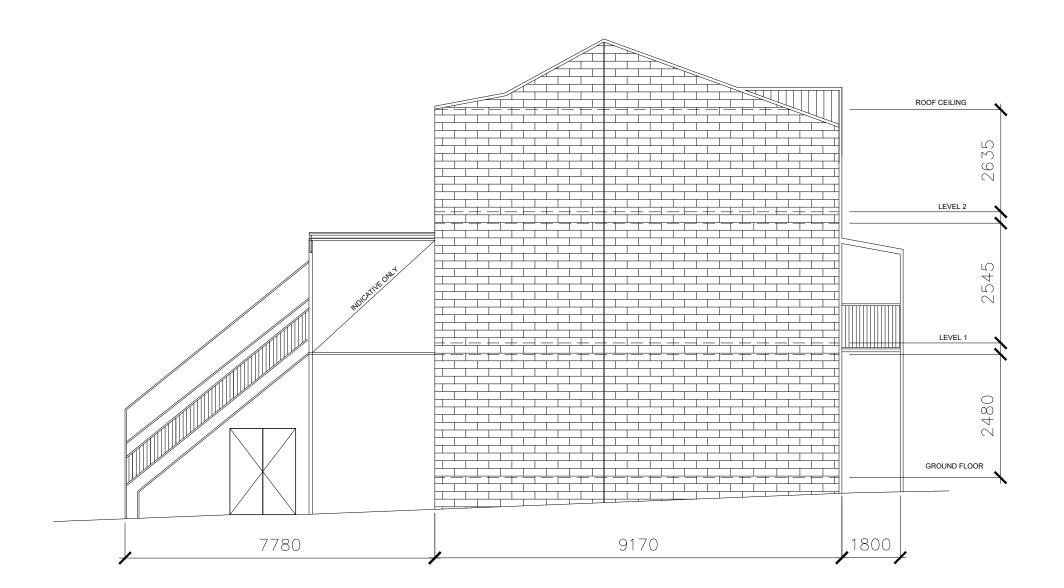


EXISTING EAST ELEVATION - 1 : 100

CLIENT: THI Y NHI TRAN &	WB CIVIL STRUCTURAL ENGINEERS	CIVIL/STRUCTURAL ENGINEER BUSINESS LICENCING AUTHORITY	PROJECT: EXTENSION	SHEET NO: 7/18
NGUYEN DUNG NGO	ABN: 84119322436 OFFICE:	PRIYAN WIJEYERATNE	PROJECT ADDRESS:	SCALE: AS SHOWN
JOB NO: TT/NN/2021	NO: 6, TENDULKAR DRIVE, ROCKBANK 3335 Mobile: 0401023328 / Ph: 03 9746 0089 Email: priyan@wbcse.com.au	PE 2448, F.I.E.(AUST)., C.P.ENG. M.Eng.(Str.), M.Tech.(Mgt.), B.Sc.(Civil)	29 GATEHOUSE DRIVE, KENSINGTON VIC 3031	DATE: 06/02/2021



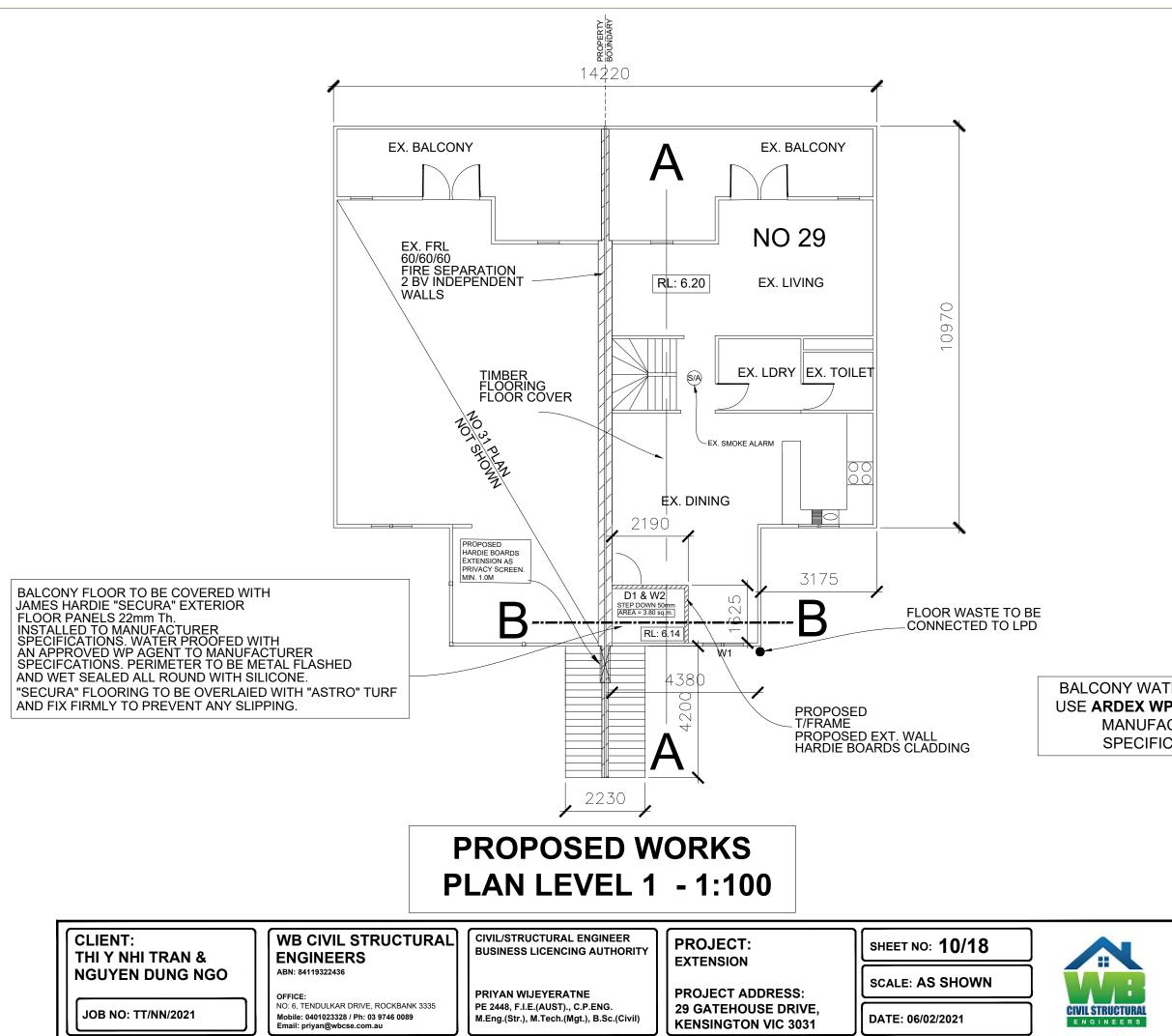




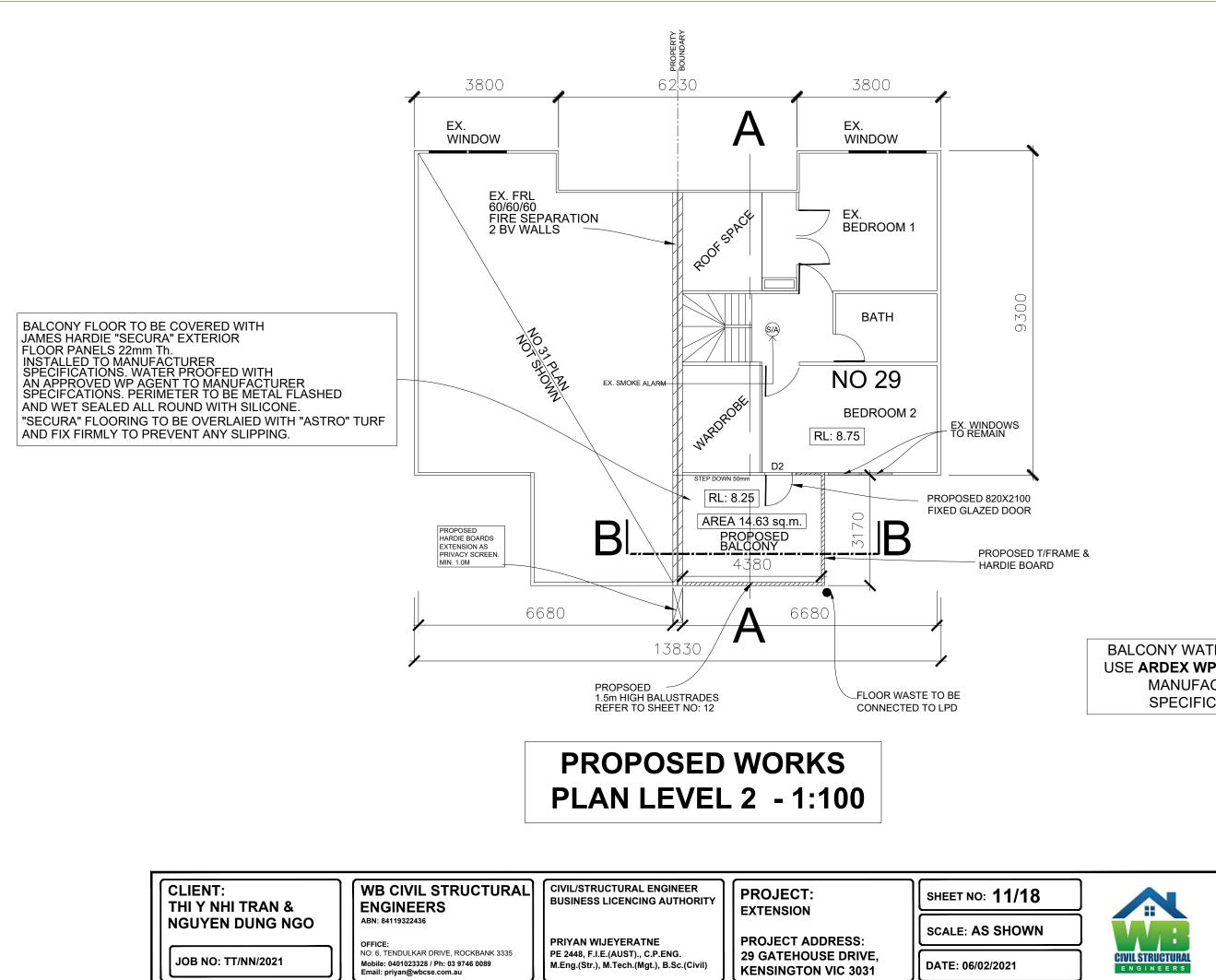
EXISTING NORTH ELEVATION - 1:100

CLIENT: THI Y NHI TRAN &	WB CIVIL STRUCTURAL ENGINEERS	CIVIL/STRUCTURAL ENGINEER BUSINESS LICENCING AUTHORITY	PROJECT: EXTENSION	SHEET NO: 9/18
NGUYEN DUNG NGO	ABN: 84119322436 OFFICE:	PRIYAN WIJEYERATNE	PROJECT ADDRESS:	SCALE: AS SHOWN
JOB NO: TT/NN/2021	NO: 6, TENDULKAR DRIVE, ROCKBANK 3335 Mobile: 0401023328 / Ph: 03 9746 0089 Email: priyan@wbcse.com.au	PE 2448, F.I.E.(AUST)., C.P.ENG. M.Eng.(Str.), M.Tech.(Mgt.), B.Sc.(Civil)	29 GATEHOUSE DRIVE, KENSINGTON VIC 3031	DATE: 06/02/2021

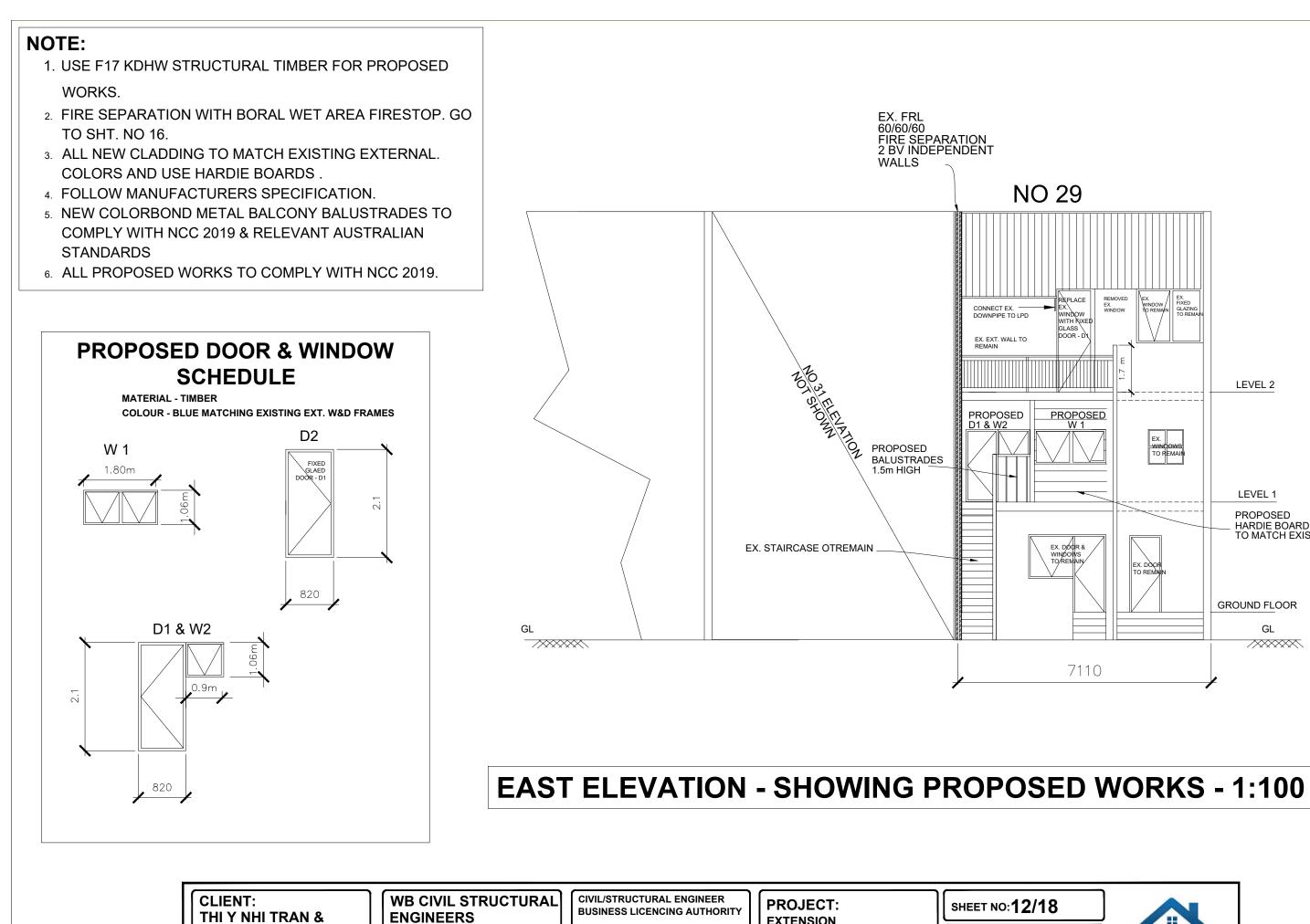




BALCONY WATERPROOFING USE ARDEX WPM 002 AS PER MANUFACTURER **SPECIFICATIONS**



BALCONY WATERPROOFING USE ARDEX WPM 002 AS PER MANUFACTURER **SPECIFICATIONS**



THI Y NHI TRAN &	ENGINEER
NGUYEN DUNG NGO	ABN: 84119322436

JOB NO: TT/NN/2021

OFFICE: NO: 6, TENDULKAR DRIVE, ROCKBANK 3335 Mobile: 0401023328 / Ph: 03 9746 0089 Email: priyan@wbcse.com.au

PRIYAN WIJEYERATNE

EXTENSION

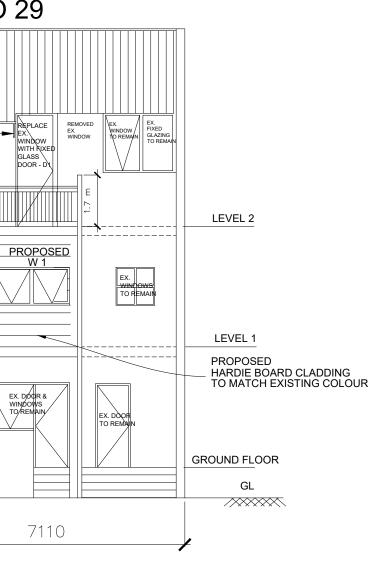
PROJECT ADDRESS: PE 2448, F.I.E.(AUST)., C.P.ENG. 29 GATEHOUSE DRIVE, M.Eng.(Str.), M.Tech.(Mgt.), B.Sc.(Civil) **KENSINGTON VIC 3031**

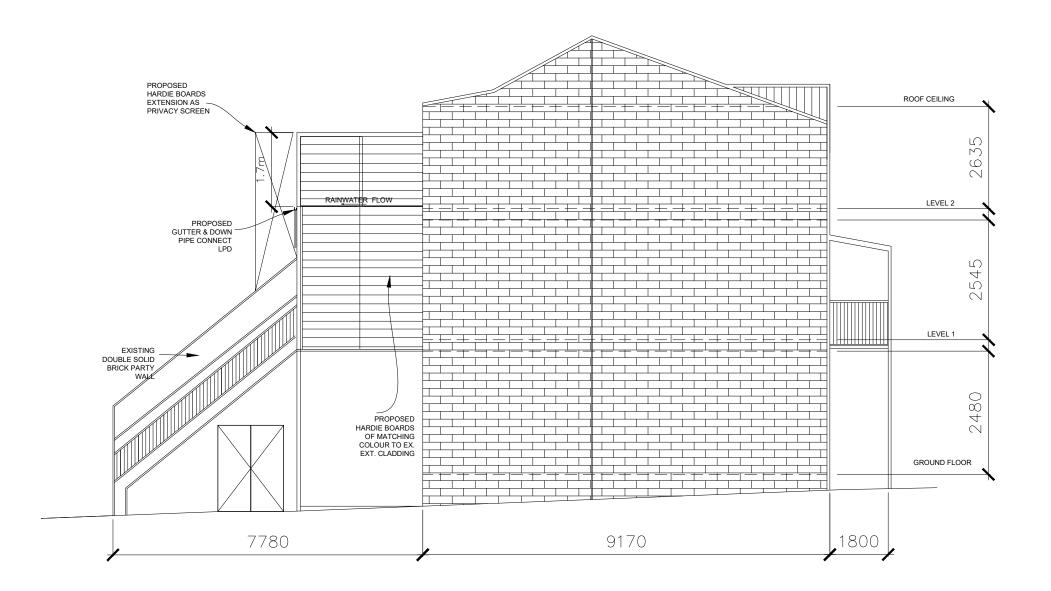
SHEET NO: 12/18

SCALE: AS SHOWN

DATE: 06/02/2021



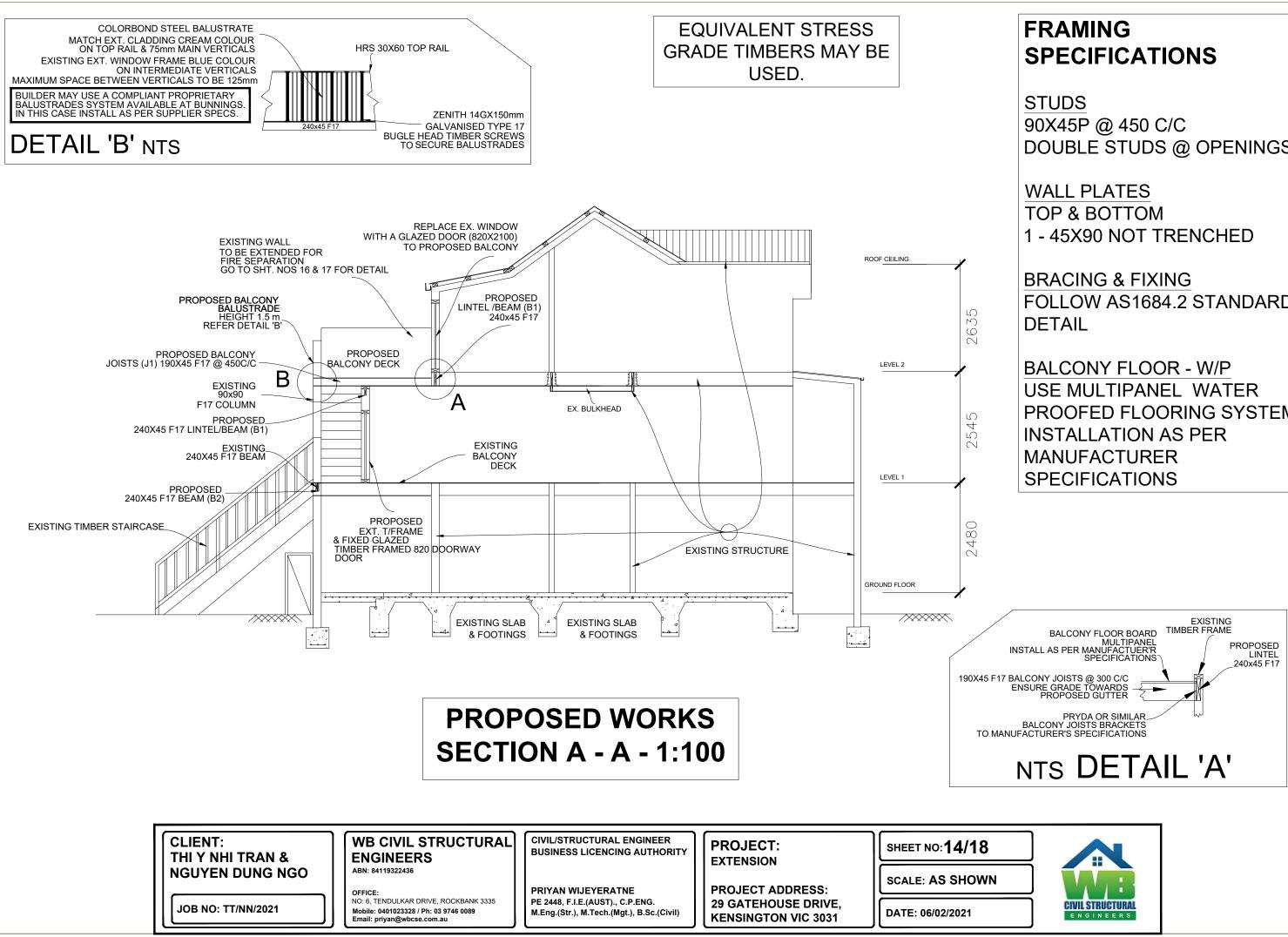




PROPOSED NORTH ELEVATION - 1:100

CLIENT: THI Y NHI TRAN &	WB CIVIL STRUCTURAL ENGINEERS	CIVIL/STRUCTURAL ENGINEER BUSINESS LICENCING AUTHORITY	PROJECT: EXTENSION	SHEET NO:13/18
NGUYEN DUNG NGO	ABN: 84119322436 OFFICE:	PRIYAN WIJEYERATNE	PROJECT ADDRESS:	SCALE: AS SHOWN
JOB NO: TT/NN/2021	NO: 6, TENDULKAR DRIVE, ROCKBANK 3335 Mobile: 0401023328 / Ph: 03 9746 0089 Email: priyan@wbcse.com.au	PE 2448, F.I.E.(AUST)., C.P.ENG. M.Eng.(Str.), M.Tech.(Mgt.), B.Sc.(Civil)	29 GATEHOUSE DRIVE, KENSINGTON VIC 3031	DATE: 06/02/2021

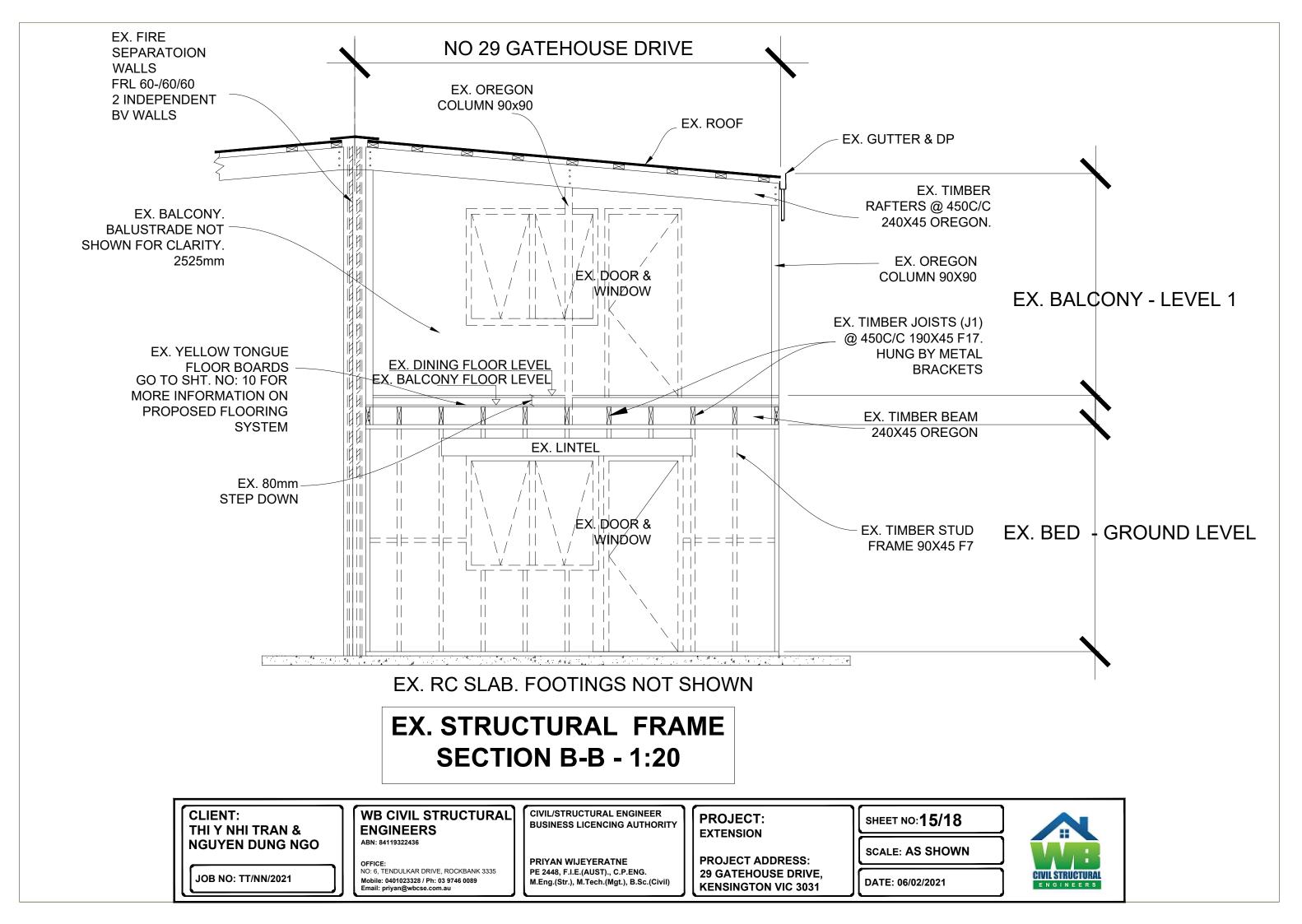


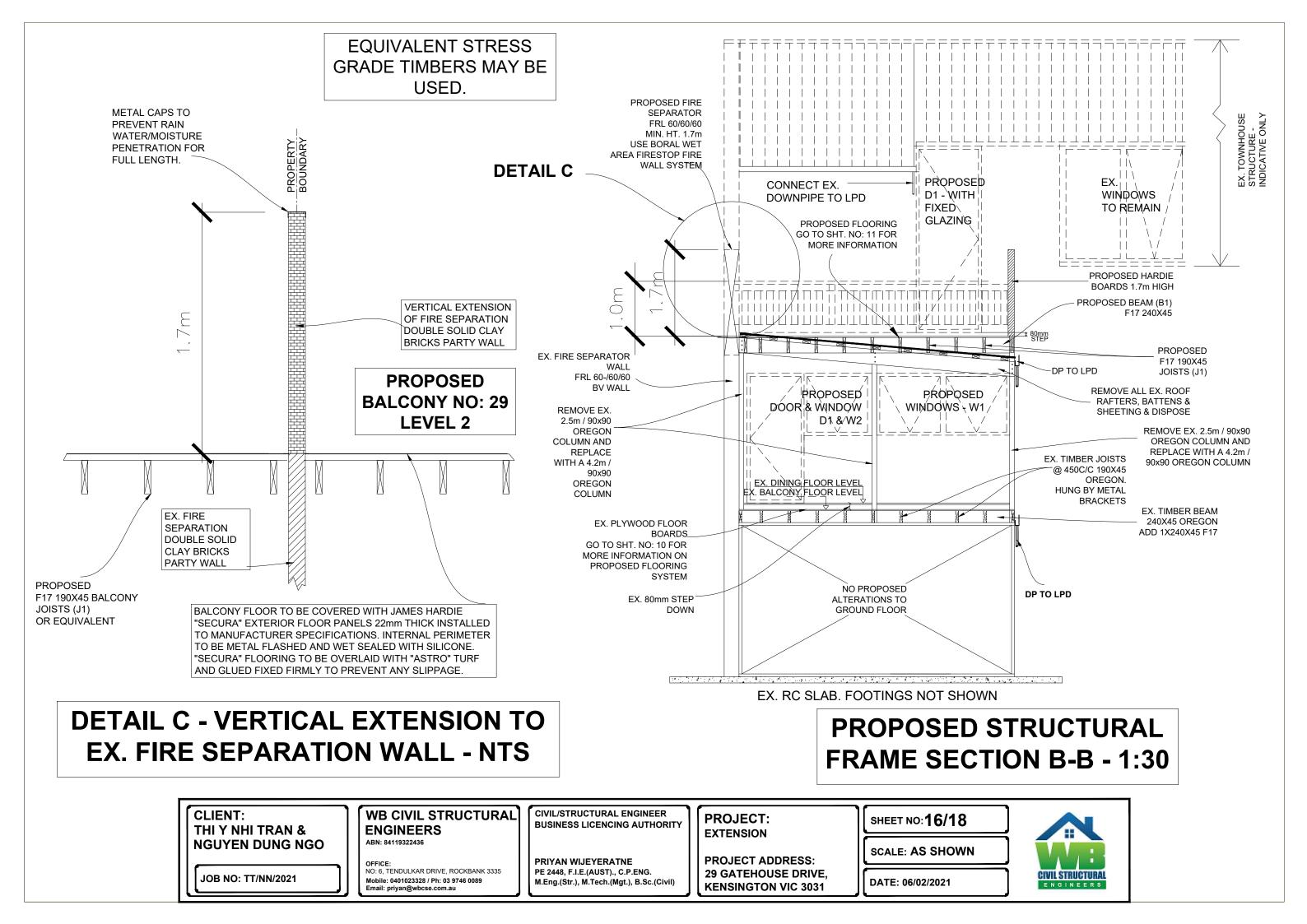


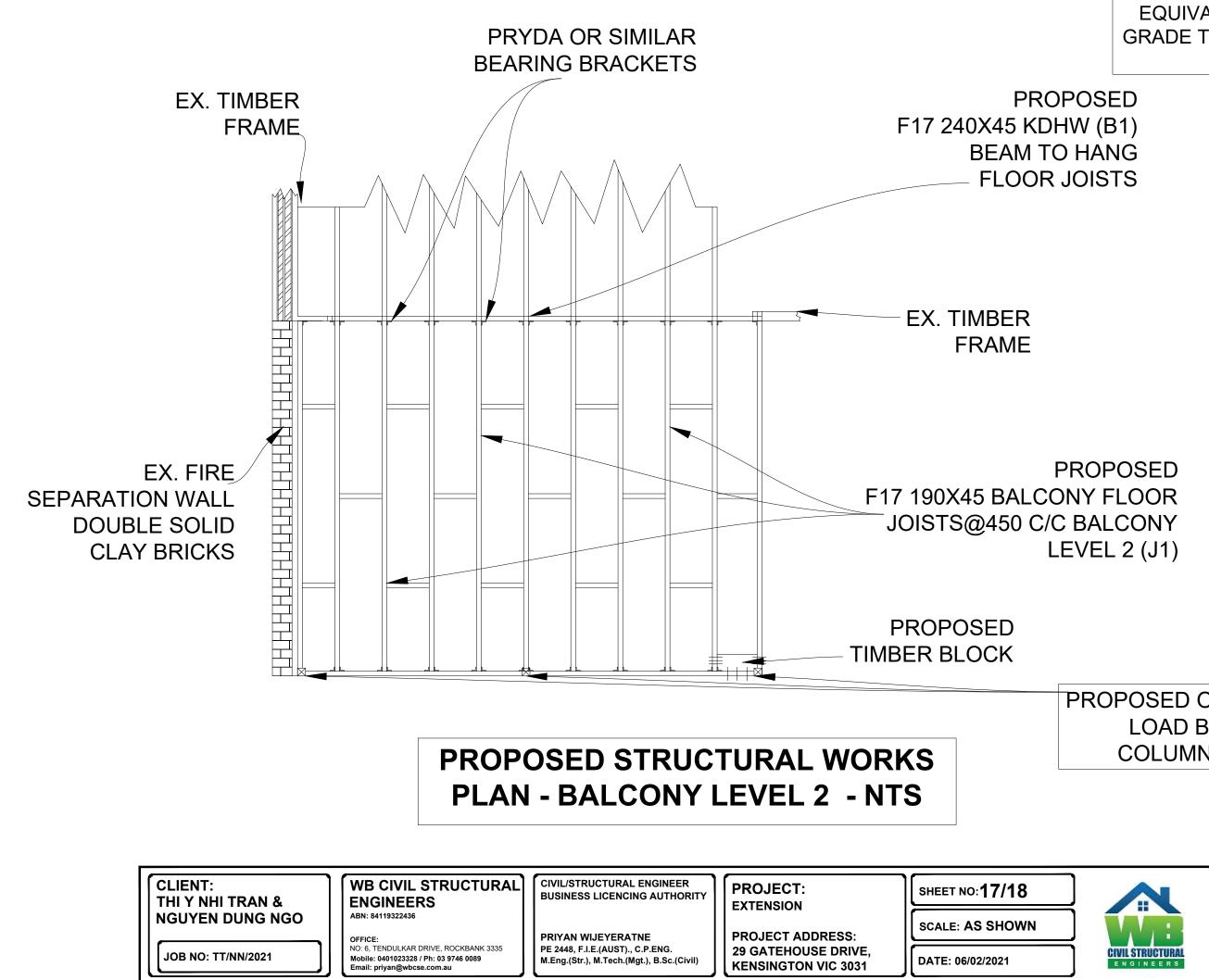
DOUBLE STUDS @ OPENINGS

FOLLOW AS1684.2 STANDARD

PROOFED FLOORING SYSTEM.







PROPOSED OREGON LOAD BEARING COLUMNS 90x90

EQUIVALENT STRESS GRADE TIMBERS MAY BE USED.

ENERGY EFFICIENCY						
The fol	The following to be installed to the <i>new habitable</i> parts of the building in ac					
Deemed to Satisfied (DtS) provisions of BCA Vol 2, 2019, Part 3.12						
Building element	BCA clause	Total R value	Installation			
Roof	3.12.1.2	R 4.1	R3.5 insulation batts Required			
External walls	3.12.1.4	R 2.8	R2.5 insulation batts + Reflective Foi			
			Required			
Floors	3.12.1.5	R 1.25	R1.0 insulation batts Required			

WINDOWS, GLAZING

FRAMES: MTM Aluminium Windows

GLAZING:

Awning & Fixed

SINGLE Glazed U Value=6.56, SHGC=0.66

Aluminium Sliding

SINGLE Glazed U Value=6.53, SHGC=0.73

Doors

Glazed U Value=6.31, SHGC=0.72

U Value to be equal or less & SHGC can be within 5%

AIR LEAKAGE

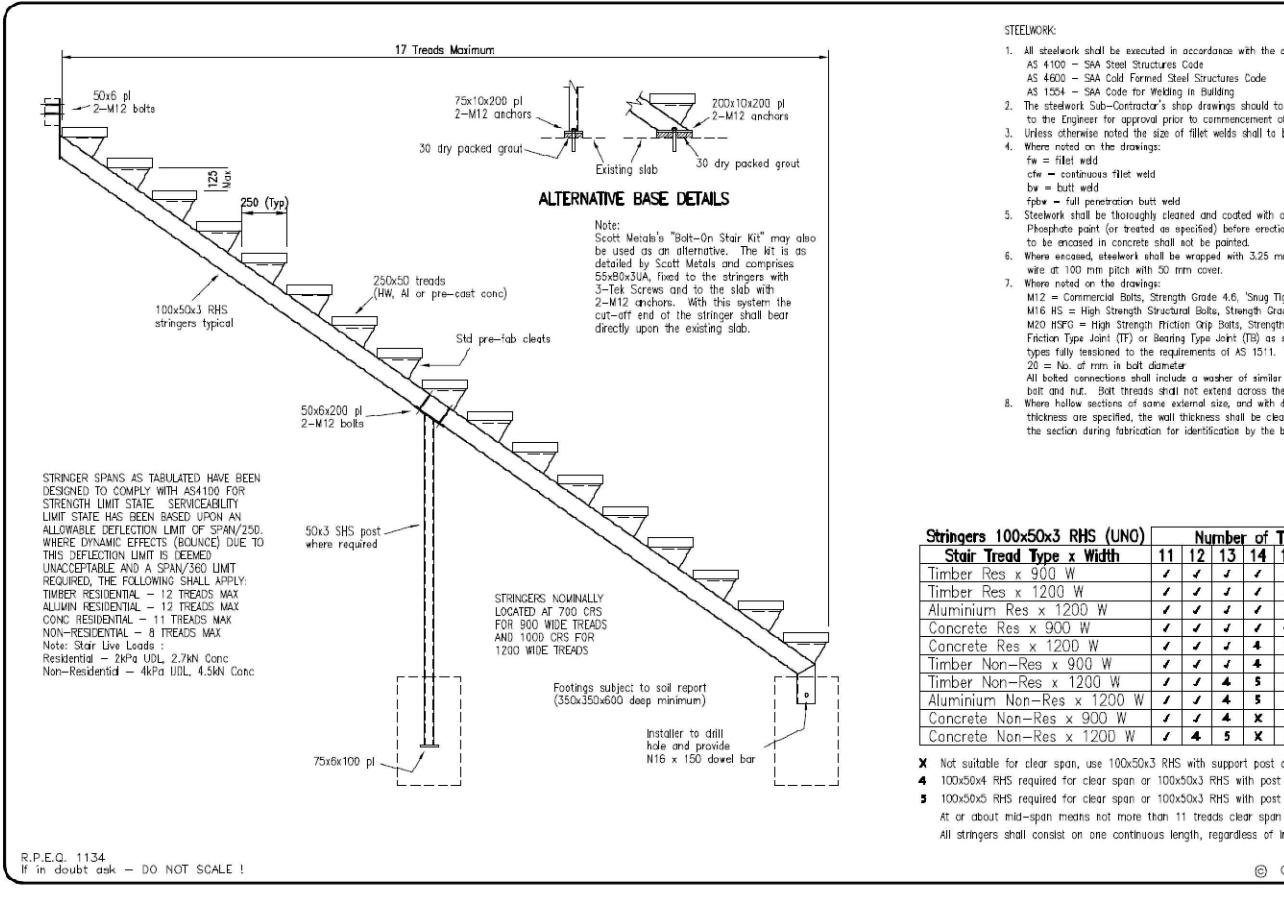
- Exhaust fans to be sealed.
- Windows and sliding doors are fitted with weather seals.
- External doors to be weather stripped.
- Gaps & Cracks around doors, windows and service penetrations are sealed.

CLIENT: THI Y NHI TRAN &	WB CIVIL STRUCTURAL ENGINEERS	CIVIL/STRUCTURAL ENGINEER BUSINESS LICENCING AUTHORITY	PROJECT: EXTENSION	SHEET NO:18/18
NGUYEN DUNG NGO	ABN: 84119322436 OFFICE:	PRIYAN WIJEYERATNE	PROJECT ADDRESS:	SCALE: AS SHOWN
JOB NO: TT/NN/2021	NO: 6, TENDULKAR DRIVE, ROCKBANK 3335 Mobile: 0401023328 / Ph: 03 9746 0089 Email: priyan@wbcse.com.au	PE 2448, F.I.E.(AUST)., C.P.ENG. M.Eng.(Str.), M.Tech.(Mgt.), B.Sc.(Civil)	29 GATEHOUSE DRIVE, KENSINGTON VIC 3031	DATE: 06/02/2021

ordance with of

oil Insulation





CLIENT: THI Y NHI TRAN &	WB CIVIL STRUCTURAL ENGINEERS	CIVIL/STRUCTURAL ENGINEER BUSINESS LICENCING AUTHORITY	PROJECT: EXTENSION	SHEET NO: PAGE 19
NGUYEN DUNG NGO	ABN: 84119322436 OFFICE:	PRIYAN WIJEYERATNE	PROJECT ADDRESS:	SCALE: AS SHOWN
JOB NO: TT/NN/2021	NO: 6, TENDULKAR DRIVE, ROCKBANK 3335 Mobile: 0401023328 / Ph: 03 9746 0089 Email: priyan@wbcse.com.au	PE 2448, F.I.E.(AUST)., C.P.ENG. M.Eng.(Str.), M.Tech.(Mgt.), B.Sc.(Civil)	29 GATEHOUSE DRIVE, KENSINGTON VIC 3031	DATE: 06/02/2021

1. All steelwork shall be executed in accordance with the current edition of: AS 4100 - SAA Steel Structures Code AS 4600 - SAA Cold Formed Steel Structures Code AS 1554 - SAA Code for Welding in Building 2. The steelwork Sub-Contractor's shop drawings should to be submitted to the Engineer for approval prior to commencement of fabrication. Unless otherwise noted the size of fillet welds shall to be 6mm. 5. Steelwork shall be thoroughly cleaned and coated with one coat of Zinc Phosphate paint (or treated as specified) before erection. Steelwork

6. Where encased, steelwork shall be wrapped with 3.25 mm (10 gauge) black wire at 100 mm pitch with 50 mm cover.

M12 = Commercial Bolts, Strength Grade 4.6, 'Snug Tight'

M16 HS = High Strength Structural Bolts, Strength Grade 8.8, 'Snug Tight' M20 HSFG = High Strength Friction Orip Balts, Strength Grade 8.8, either Friction Type Joint (TF) or Bearing Type Joint (TB) as specified, both types fully tensioned to the requirements of AS 1511.

All bolted connections shall include a washer of similar stress grade to the balt and nut. Bolt threads shall not extend across the shear plane. 8. Where hollow sections of same external size, and with differing wall thickness are specified, the wall thickness shall be clearly marked on the section during fabrication for identification by the builder on site.

UNO)	Number of Treads							
h	11	12	13	14	15	16	17	
	1	1	4	1	1	1	5	
	1	1	3	1	1	5	5	
	1	1	4	1	1	4	5	
	1	1	1	1	4	Х	X	
	1	1	4	4	X	X	X	
1	1	1	4	4	X	Х	X	
W	1	1	4	5	X	X	X	
W 00	1	1	4	5	X	х	X	
W	1	1	4	x	X	X	X	
W C	1	4	5	X	X	X	X	

X Not suitable for clear span, use 100x50x3 RHS with support post at or about mid-span 4 100x50x4 RHS required for clear span or 100x50x3 RHS with post at or about mid-span 5 100x50x5 RHS required for clear span or 100x50x3 RHS with post at or about mid-span

All stringers shall consist on one continuous length, regardless of internal support

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