

DOCUMENTATION OF STRUCTURAL WORKS

PROPOSED CO-LIVING DEVELOPMENT

175-177 CLEVELAND STREET & 6-8 WOODBURN STREET, REDFERN

JAMES TAYLOR AND ASSOCIATES

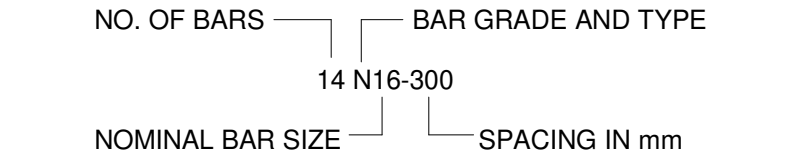
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STRUCTURAL DRAWING LIST	
Sheet Number	Sheet Name
S01	COVER SHEET
S09	TUNNEL ALIGNMENT PLAN
S10	BULK EXCAVATION PLAN
S20	FOOTING PLAN
S21	BASEMENT PLAN
S25	SECTION 1
S26	SECTION 2

CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600-2009 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- C2. CONCRETE COMPOSITION AND CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:
- | | | |
|---------------------------------|-------------------------------|-----------|
| ELEMENT | AS 3600
f _c MPa | COVER mm. |
| FOOTINGS | 40 | 45 |
| ALL - UNO. INTERNAL
EXTERNAL | 40
40 | 25
45 |
- C3. ADMIXTURES, WHERE USED, SHALL COMPLY WITH THE REQUIREMENTS OF AS1478 AND AS1479. THESE COVER REQUIREMENTS MAY VARY DUE TO REQUIRED FIRE RESISTANCE RATING - REFER AS3600
- C3. ALL CONCRETE SUPPLY & TESTING SHALL CONFORM WITH AS1379 AND SHALL HAVE MAXIMUM SLUMP OF 80mm AND AGGREGATES IN ACCORDANCE WITH AS2758.1 TO A MAXIMUM SIZE OF 20mm
- C4. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN ON DRAWINGS OR SPECIFICALLY APPROVED BY THE ENGINEER.
- C5. NO HOLES, CHASES OR EMBEDMENTS OF PIPES, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- C6. ALL CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH AS3600. WHERE A SURFACE CURING COMPOUND IS USED, IT MUST BE APPLIED ONTO SLABS WITHIN 2 HOURS OF FINISHING OPERATION AND ONTO WALLS AND COLUMNS IMMEDIATELY AFTER REMOVAL OF THE FORMWORK. HORIZONTAL FORMWORK SHALL BE STRIPPED WHEN APPROVED BY THE ENGINEER.
- C8. SLABS AND BEAMS SHALL BEAR ONLY ON THE BEAMS, WALLS ETC. SHOWN ON THE STRUCTURAL DRAWINGS. ALL OTHER BUILDING ELEMENTS SHALL BE KEPT 15mm CLEAR OF SOFFITS OF STRUCTURAL ELEMENTS.
- C9. COMPLETED STRUCTURAL ELEMENTS SHALL CONFORM WITH THE SHAPES, LINES, LEVELS, GRADES AND DIMENSIONS REQUIRED BY THE CONTRACT DRAWINGS.
- C10. ALL CONCRETE REINFORCEMENT SHALL CONFORM WITH AS/NZS 4671. DUCTILITY GRADE: CLASS N. NO REINFORCEMENT SHALL BE WELDED WITHOUT PRIOR APPROVAL.
- C11. R = STRUCTURAL GRADE ROUND BAR
N = "TEMPCORE" DEFORMED BAR
F = HARD DRAWN STEEL WIRE REINFORCING FABRIC
DESIGNATION CODE OF REINFORCEMENT BARS:-



- UNO - UNLESS NOTED OTHERWISE.
NSOP - NOT SHOWN ON PLAN.
LV - LENGTH VARIES.
- C12. TRANSVERSE TIE BARS N12-300, WHERE NOT OTHERWISE SHOWN, SPLICE WHERE NECESSARY AND LAP WITH MAIN BARS 400mm.
- C13. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN ON THE STRUCTURAL DRAWINGS OR IN POSITIONS OTHERWISE APPROVED IN WRITING BY THE PRINCIPAL. LAPS SHALL BE IN ACCORDANCE WITH AS3600 AND NOT LESS THAN THE DEVELOPMENT FOR EACH BAR. SITE BENDING OF REINFORCING BARS SHALL BE DONE WITHOUT HEATING USING MECHANICAL BENDING TOOLS. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER. FABRICS SHALL BE LAPPED 2 TRANSVERSE WIRES PLUS 50mm. BUNDLED BARS SHALL BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH THREE WRAPS OF TIE WIRE.
- C14. REINFORCEMENT IS SHOWN DIAGRAMMATICALLY. IT IS NOT NECESSARILY SHOWN IN TRUE ROJECTION.
- C15. ALL REINFORCEMENT SHALL BE MAINTAINED IN POSITION DURING CONCRETING.

GENERAL

- G1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTS INCLUDING ALL WORKING DRAWINGS AND SPECIFICATIONS, AND WRITTEN INSTRUCTIONS AS MAY BE ISSUED PRIOR TO OR DURING THE COURSE OF CONSTRUCTION. ALL DISCREPANCIES AND VARIATIONS SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- G2. ALL STRUCTURAL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL RELEVANT AND CURRENT S.A.A. CODES.
- G3. STRUCTURAL DRAWINGS SHALL NOT BE SCALED IN ORDER TO OBTAIN DIMENSIONS. DIMENSIONS WHERE SHOWN ON STRUCTURAL DRAWINGS SHALL BE CO-ORDINATED WITH ALL OTHER RELEVANT DRAWINGS.
- G4. DURING CONSTRUCTION, THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.

FOUNDATION

- F1. DESIGN BEARING PRESSURE = 1000kPa (APPROVED ROCK)
- F2. FOUNDATION MATERIAL SHALL BE APPROVED FOR THE ABOVE DESIGN BEARING PRESSURE PRIOR TO CONSTRUCTION OF FOOTINGS.

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					MARK SHAPIRO ARCHITECTS	EG FUNDS MANAGEMENT	PROPOSED CO-LIVING DEVELOPMENT		CHKD.				6394	
					markshapiro.com.au	ADDRESS	175-177 CLEVELAND ST & 6-8 WOODBURN ST, REDFERN		APPRD.			DRAWING NO.		REV
HL BY	R.Y. CHKD	FOR DA DESCRIPTION		14.09.2022 DATE	A REV	PHONE 0421 996 467	LEVEL 21, GOVERNOR PHILLIP TOWER, 1 FARRER PLACE, SYDNEY, 2000	COVER SHEET	SCALE As indicated			DATE	S01	A



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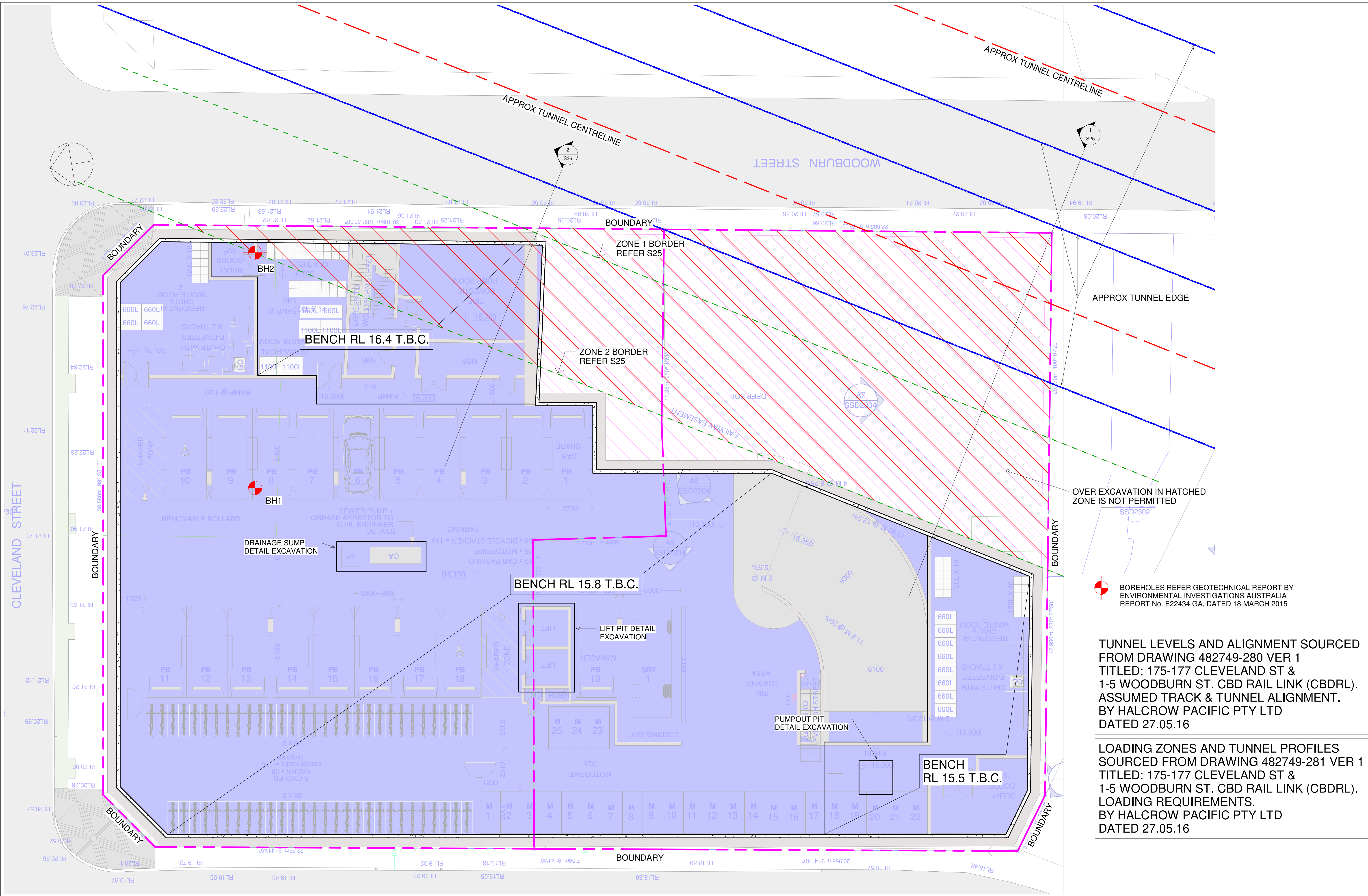
PROJECT
PROPOSED CO-LIVING DEVELOPMENT
175-177 CLEVELAND ST & 6-8 WOODBURN ST, REDFERN

TUNNEL ALIGNMENT PLAN

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APPRD.			
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TUNNEL LEVELS AND ALIGNMENT SOURCED FROM DRAWING 482749-280 VER 1
TITLED: 175-177 CLEVELAND ST & 1-5 WOODBURN ST. CBD RAIL LINK (CBDRL).
ASSUMED TRACK & TUNNEL ALIGNMENT.
BY HALCROW PACIFIC PTY LTD
DATED 27.05.16

LOADING ZONES AND TUNNEL PROFILES SOURCED FROM DRAWING 482749-281 VER 1
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BY HALCROW PACIFIC PTY LTD
DATED 27.05.16

BULK EXCAVATION PLAN
SCALE 1 : 100 @A1

A1

HL	R.Y.	FOR DA	14.09.2022	A
BY	CHKD	DESCRIPTION	DATE	REV

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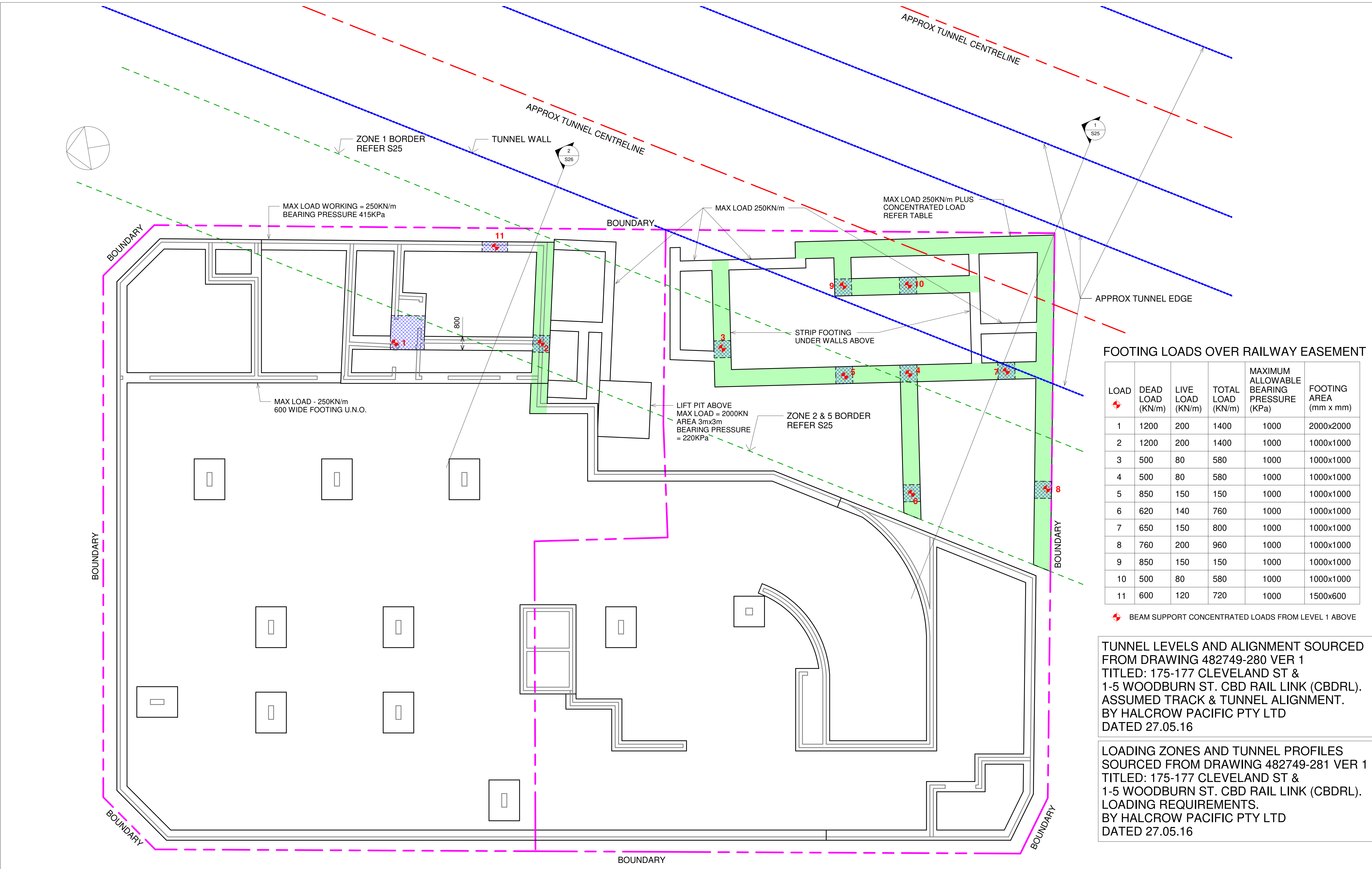
PROJECT
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175-177 CLEVELAND ST & 6-8 WOODBURN ST, REDFERN
BULK EXCAVATION PLAN

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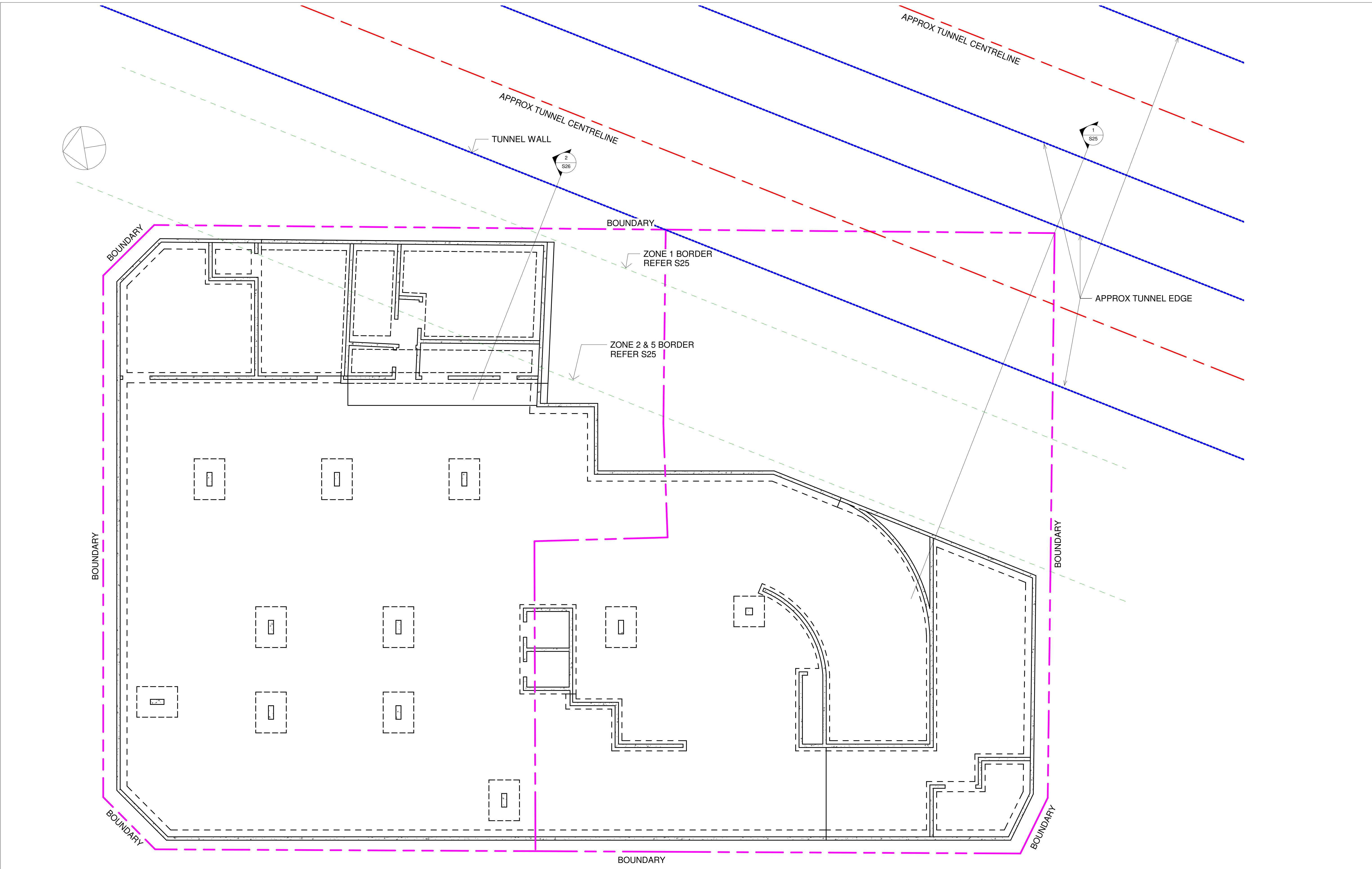
FOOTING LOADS OVER RAILWAY EASEMENT

LOAD	DEAD LOAD (KN/m)	LIVE LOAD (KN/m)	TOTAL LOAD (KN/m)	MAXIMUM ALLOWABLE BEARING PRESSURE (KPa)	FOOTING AREA (mm x mm)
1	1200	200	1400	1000	2000x2000
2	1200	200	1400	1000	1000x1000
3	500	80	580	1000	1000x1000
4	500	80	580	1000	1000x1000
5	850	150	150	1000	1000x1000
6	620	140	760	1000	1000x1000
7	650	150	800	1000	1000x1000
8	760	200	960	1000	1000x1000
9	850	150	150	1000	1000x1000
10	500	80	580	1000	1000x1000
11	600	120	720	1000	1500x600

BEAM SUPPORT CONCENTRATED LOADS FROM LEVEL 1 ABOVE

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BASEMENT PLAN

SCALE 1 : 100 @A1

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BY	CHKD	DESCRIPTION	DATE	REV	

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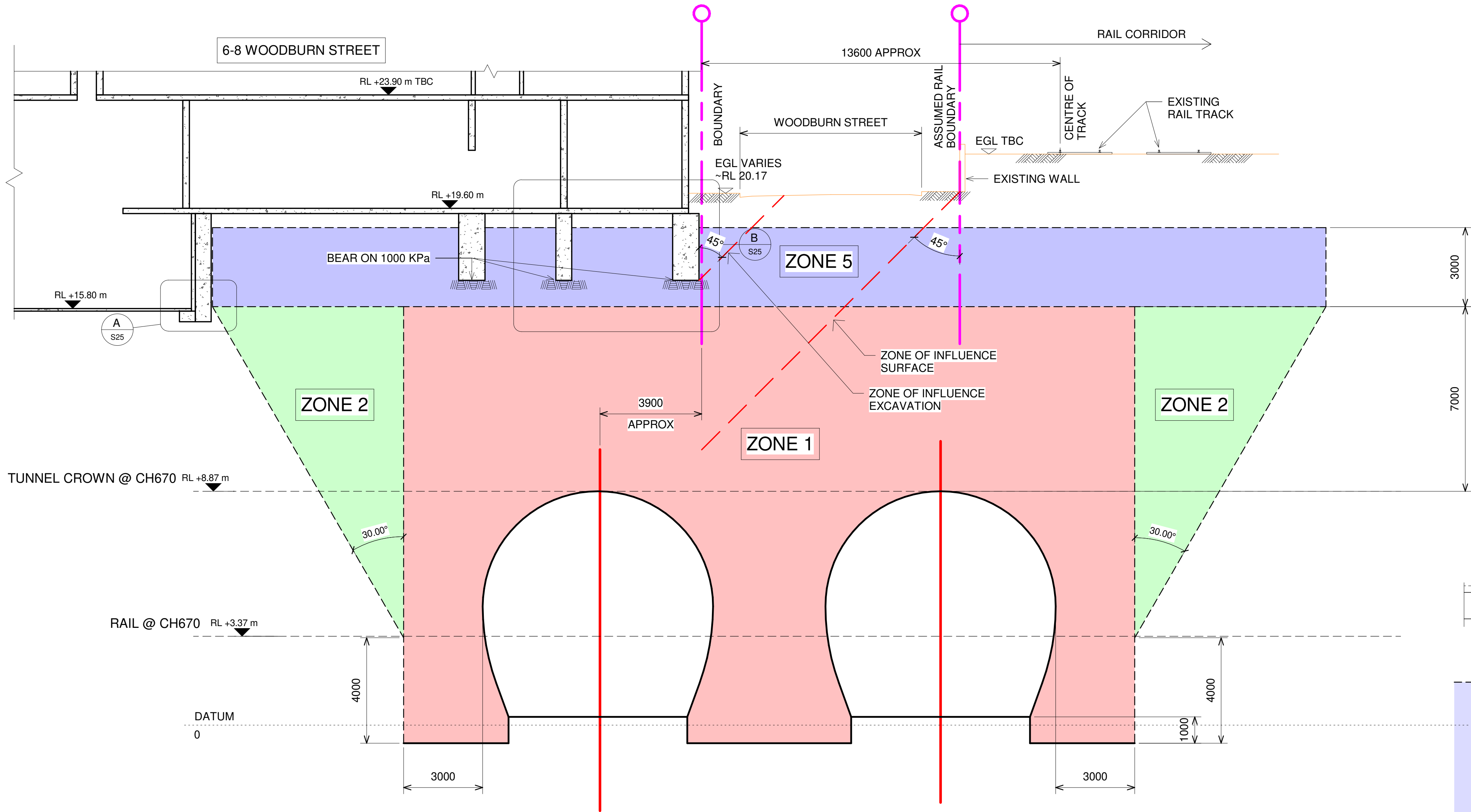
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PROJECT NO.	
6394	
DRAWING NO.	REV
S21	A



- ZONE 1 EXCAVATIONS, STRUCTURES NOT PERMITTED
- ZONE 2 VERTICAL LOADING NOT ALLOWED
- ZONE 5 3000kN/m² OVER 3x3m MAX (3000KPa) AND 1000kN/m² OVER 10x10m MAX (1000KPa)

TUNNEL CROWN @ CH670 RL +8.87 m

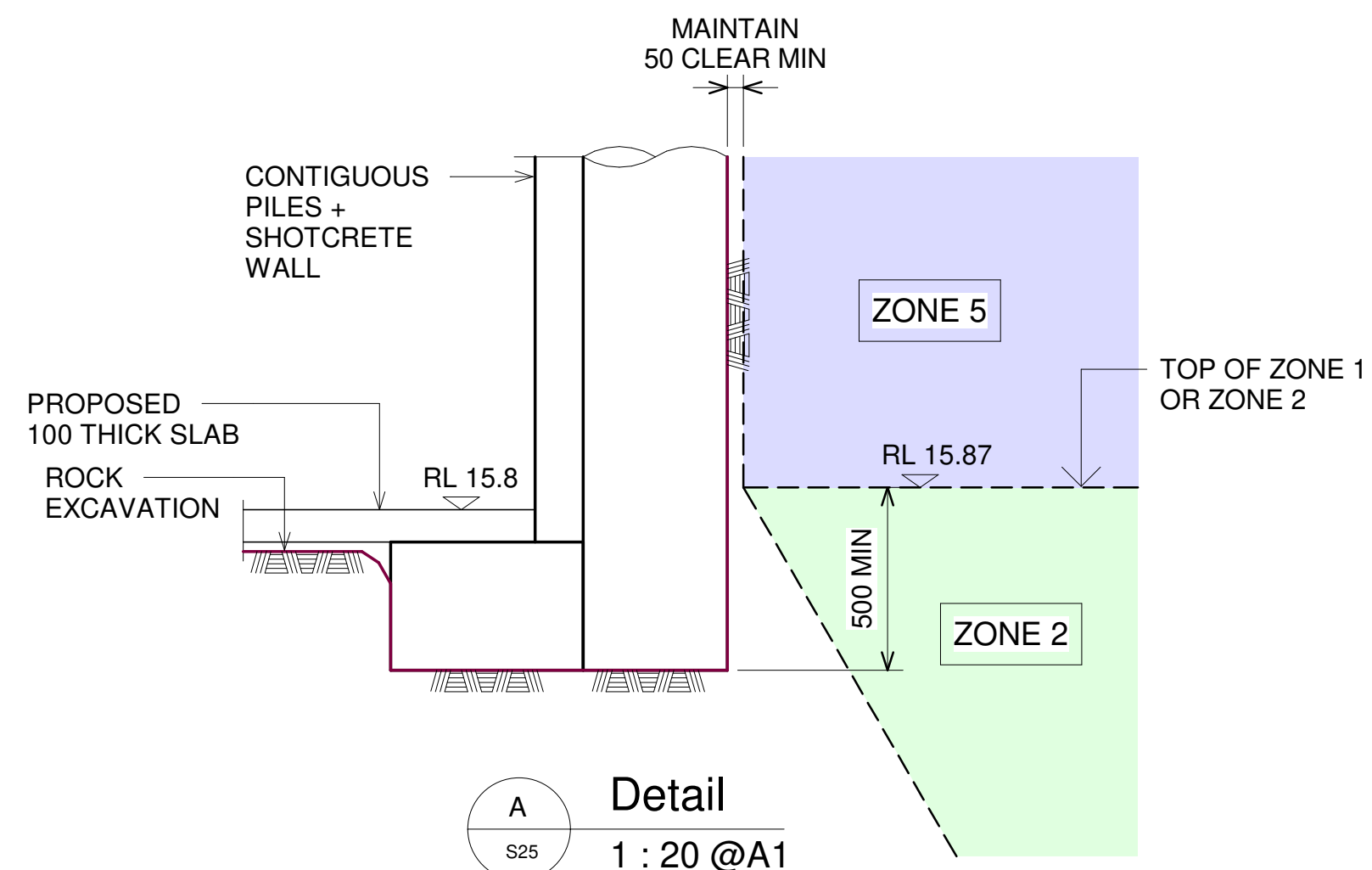
RAIL @ CH670 RL +3.37 m

DATUM
0

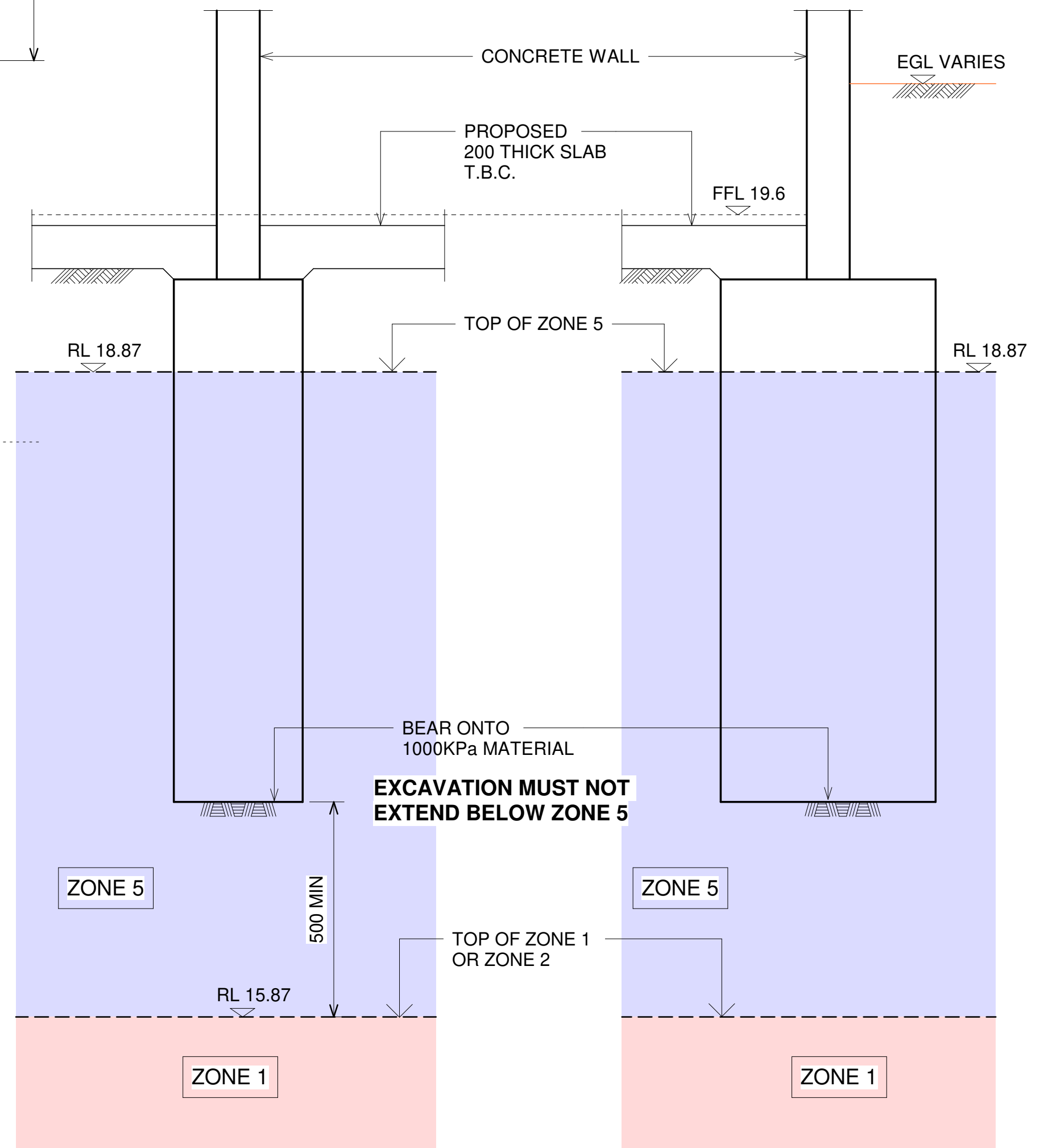
1 Section
S09 SCALE 1 : 100 @A1

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A Detail
S25 1 : 20 @A1



B Detail
S25 1 : 20 @A1

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BY	CHKD	DESCRIPTION	DATE		

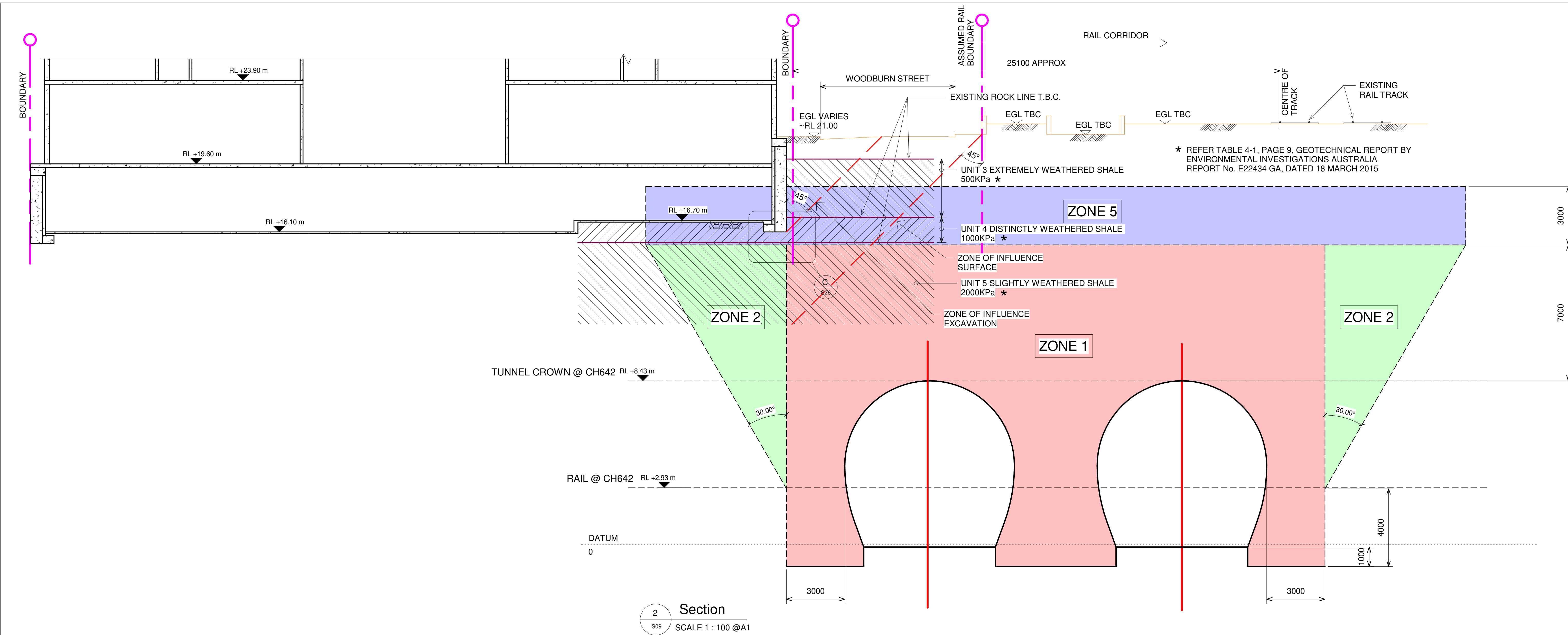
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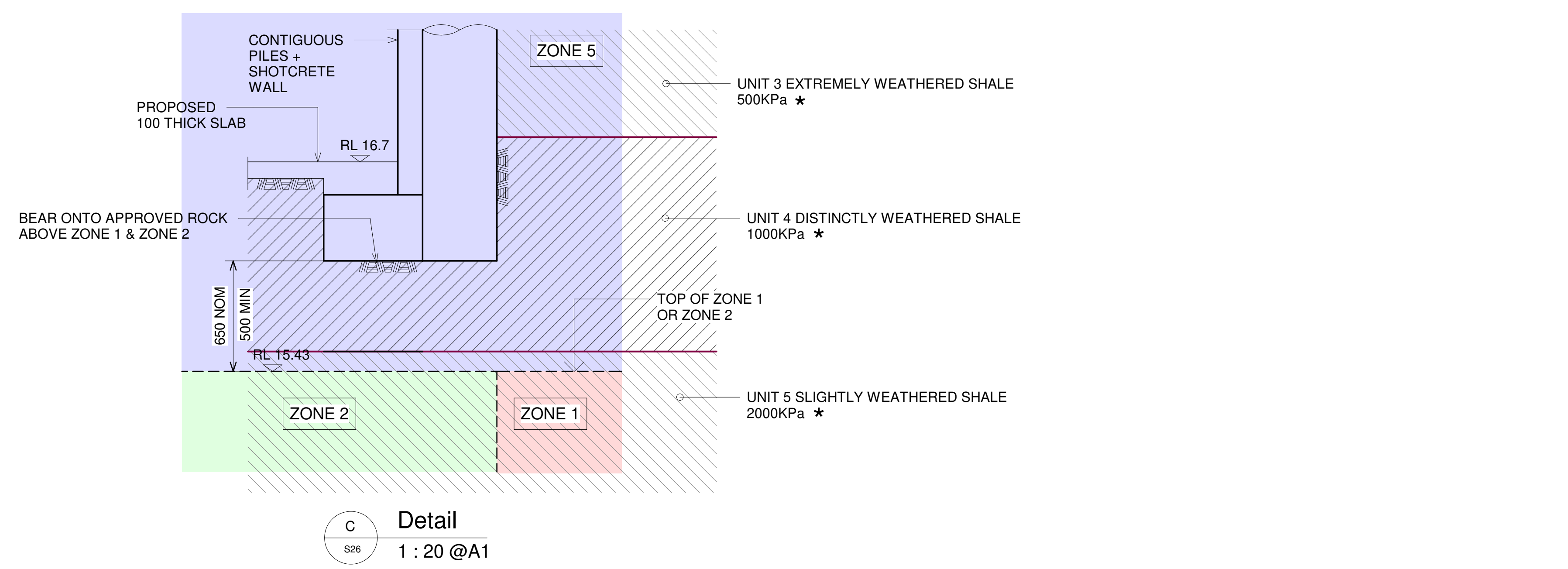
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- ZONE 1 EXCAVATIONS, STRUCTURES NOT PERMITTED
- ZONE 2 VERTICAL LOADING NOT ALLOWED
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BY				CHKD		DESCRIPTION		DATE		A		REV								A	