REGULATED DESIGN RECORD

PROJECT ADDRESS: 30 DIGGINGS TERRACE, THREDBO
PROJECT TITLE: BLACK BEAR INN
CONSENT NUMBER:

REV	DATE	DESCRIPTION	DP FULL NAME	REG NO
1	01.02.2022	REVISED FOR PARTICULARS OF REGULATED DESIGN - GROUND ANCHORS	THOMAS WILLIAMS	PRE0001122
2	28.02.2022	CONSOLIDATED SHEETS FOR DA SUBMISSION	THOMAS WILLIAMS	PRE0001122
3	29.04.2022	DIFFERENTIATION BETWEEN BUILT AND UNBUILT WORKS	THOMAS WILLIAMS	PRE0001122

pmiengineers
SUITE 302/59 GREAT BUCKINGHAM ST REDFERN 2016
+61 9332 4084
ADMIN@PMIENGINEERS.COM
WWW.PMIENGINEERS.COM
ABN: 90 651 637 955

ISSUE:

FOR CONSTRUCTION

DRAWING TITLE
ANCHOR SECTIONS

JOB NUMBER
PMI-2021-053

DRAWING NUMBER **S10e**
REVISION **3**

SCALE AT B1: 1 : 100

CLIENT:
HIDALI PTY LTD

THE COPYRIGHT OF THIS DRAWING REMAINS WITH PMI ENGINEERS

ARCHITECT
PopovBass
PO Box 334
Surry Hills NSW 2010
T 02 9955 5604
E info@popovbass.com.au
W popovbass.com.au

ALL SETOUT TO ARCHITECT'S DRAWINGS.
DIMENSIONS TO BE VERIFIED WITH ARCHITECT AND BUILDER BEFORE COMMENCING SHOP DRAWINGS OR SITE WORK.
ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.

NOTE:

- ALL ANCHORS TO BE TESTED TO TEST LOAD FOR 15 MINUTES AND ANCHOR IS TO BE CONFIRMED HOLDING 'TEST LOAD' FOR THE FULL 15 MIN DURATION
- ANCHOR WORKING LOADS TEST LOADS AND LOCK-OFF LOADS ARE TO BE IN ACCORDANCE WITH SCHEDULE BELOW.
- ANCHORS TO BE DYWIDAG Y1050H PRESTRESSING STEEL BAR OR SIMILAR APPROVED
- ALL ANCHORS HOLES TO BE 125mm DIA MINIMUM
- ANCHOR BARS ARE TO BE BLACK STEEL WITH NO CORROSION PROTECTION / SHEATHING REQUIRED DUE TO TEMPORARY NATURE
- NO FIRE TREATMENT IS REQUIRED FOR TEMPORARY ANCHORS

TOLERANCES:

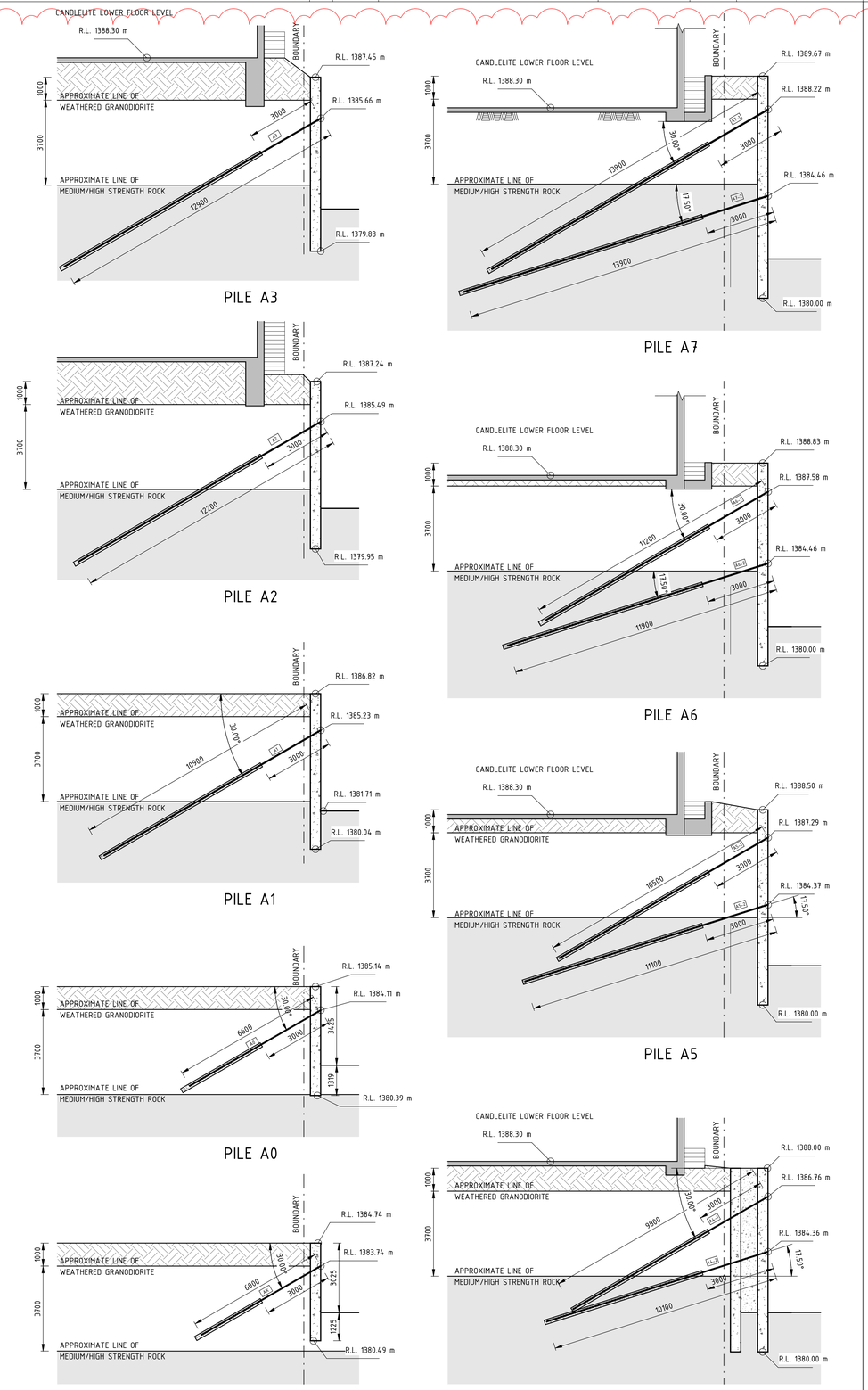
- ALL ANCHORS TO BE LOCATED WITHIN 250mm OF THE STATED RL
- WITHIN 5 DEG OF STATED ANGLE OFF HORIZONTAL
- ALL ANCHORS TO BE PERPENDICULAR TO EXCAVATION CUT WITHIN 5 DEG
- MINIMUM FREE LENGTH OF ANCHORS OF 3m AS NOTED ON SECTIONS

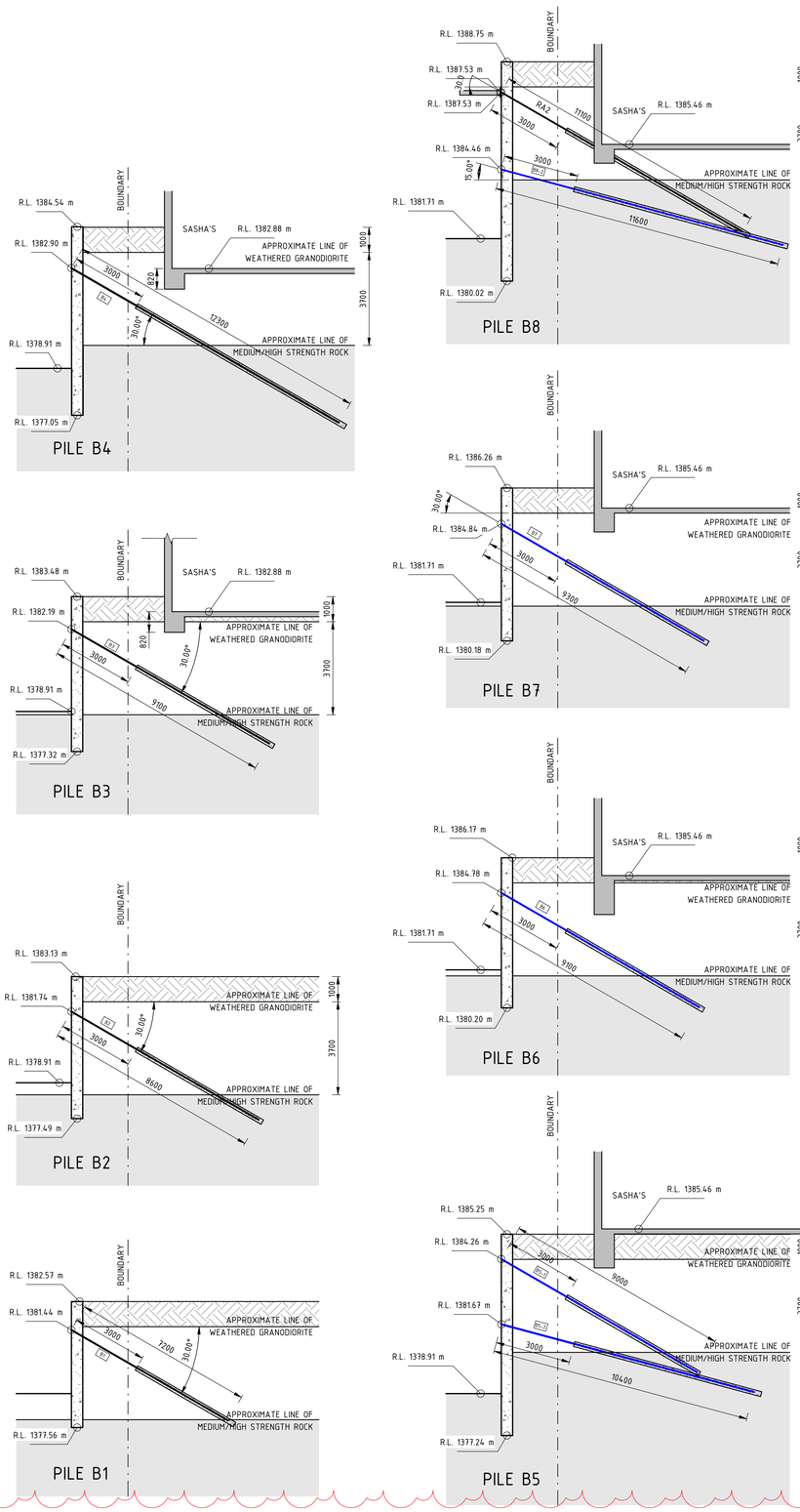
DESIGN LOADS:

- ALL ANCHORS DESIGNED FOR 8H + SURCHARGE LOADING FROM LIVE LOAD
- LIVE LOAD ASSUMED AS 5kPA FOR EAST AND WEST SIDE OF SITE
- LIVE LOAD ASSUMED AS 10kPA FOR SOUTHERN SIDE OF SITE

ANCHOR WORKING LOADS:

- WORKING LOAD SPECIFIED AS LOAD RESULTING FROM LIVE LOAD + 6H DEAD LOAD
- TEST LOAD DEFINED AS LIVE LOAD + 8H DEAD LOAD WITH APPROPRIATE SAFETY FACTORS APPLIED
- ANCHOR LENGTH DESIGN BASED ON 150kPa ULTIMATE BOND STRESS
- MIN EXTENSION BASED ON EXTENSION OVER 3m FREE LENGTH ONLY
- MAX EXTENSION BASED ON EXTENSION OVER 3m FREE LENGTH + 1/2 BONDED LENGTH





ANCHOR SCHEDULE

IDENTIFIER	TYPE MARK	DIAMETER	LENGTH (mm)	ANCHOR RL	ANGLE	WORKING LOAD (kN)	TEST LOAD (kN)	LOCK OFF LOAD (kN)	MIN EXTENSION - TEST LOAD (mm)	MAX EXTENSION - TEST LOAD (mm)	INSTALLED
A0	RA1	26.5mm	6600	1384.12	30°	130	270	130	7.16	11.46	YES
A1	RA2	32mm	10900	1385.24	30°	290	580	290	10.55	24.45	YES
A2	RA2	32mm	12200	1385.50	30°	340	680	340	12.37	31.35	YES
A3	RA2	32mm	12900	1385.67	30°	360	730	360	13.28	35.20	YES
A4-1	RA1	26.5mm	9800	1386.77	30°	300	500	300	13.27	28.30	YES
A4-2	RA1	26.5mm	10100	1384.37	17.5°	320	520	320	13.80	30.12	YES
A5-1	RA2	32mm	10500	1387.30	30°	330	550	330	10.01	22.52	YES
A5-2	RA2	32mm	11100	1384.38	17.5°	360	590	360	10.74	25.23	YES
A6-1	RA2	32mm	11200	1387.60	30°	360	600	360	10.92	25.84	YES
A6-2	RA2	32mm	11900	1384.48	17.5°	390	650	390	11.83	29.37	YES
A7-1	RA3	36mm	13900	1388.24	30°	480	800	480	11.50	32.40	YES
A7-2	RA3	36mm	13900	1384.48	17.5°	480	800	480	11.50	32.40	YES
AX	RA1	26.5mm	6000	1383.75	30°	110	220	110	5.84	8.76	YES
B1	RA1	26.5mm	7200	1381.45	30°	150	310	150	8.23	13.98	YES
B2	RA1	26.5mm	8600	1381.75	30°	210	410	210	10.88	21.03	YES
B3	RA1	26.5mm	9100	1382.20	30°	220	450	220	11.94	24.08	YES
B4	RA2	32mm	12300	1382.91	30°	340	680	340	12.37	31.55	YES
B5-1	RA1	26.5mm	9000	1384.27	30°	270	440	270	11.67	23.35	NO
B5-2	RA2	32mm	10400	1381.68	15°	330	540	330	9.83	21.94	NO
B6	RA1	26.5mm	9100	1384.79	30°	220	450	220	11.94	24.08	NO
B7	RA1	26.5mm	9300	1384.85	30°	230	470	230	12.47	25.56	NO
B8-1	RA2	32mm	11100	1387.55	30°	360	590	360	10.74	25.23	YES
B8-2	RA2	32mm	11600	1384.48	15°	380	630	380	11.46	27.89	NO
N1-1	RA2	32mm	11900	1386.93	15°	390	650	390	11.83	29.37	YES
N1-2	RA1	26.5mm	8800	1383.98	10°	260	420	260	11.14	21.92	PARTIAL
N2-1	RA2	32mm	13000	1386.93	15°	440	730	440	13.28	35.42	YES
N2-2	RA1	26.5mm	8200	1384.98	10°	230	380	230	10.08	18.82	PARTIAL
N2-3	RA2	32mm	12600	1382.18	10°	420	700	420	12.74	33.12	NO
S3	RA1	26.5mm	6000	1389.66	30°	140	220	140	5.84	8.76	YES
S5	RA1	26.5mm	6400	1389.79	30°	150	250	150	6.63	10.39	YES
S7	RA1	26.5mm	7400	1390.07	30°	200	320	200	8.49	14.72	YES
S9	RA1	26.5mm	8100	1390.25	30°	230	370	230	9.82	18.16	YES
S11	RA1	26.5mm	8900	1390.40	30°	260	430	260	11.41	22.63	YES
S13	RA1	26.5mm	9200	1390.59	30°	270	450	270	11.94	24.28	YES
S15	RA1	26.5mm	8800	1390.91	30°	260	420	260	11.14	21.92	YES

Department of Planning and Environment
Issued under the Environmental Planning and Assessment Act 1979
Approved Application No DA 22/4825
Granted on the 1 August 2022
Signed M Brown
Sheet No 8 of 18

ANCHOR HAS BEEN INSTALLED

ANCHOR HAS NOT BEEN INSTALLED