

# LAKES ENTRANCE TRAINING WALL - SECTION 5, 8, 8A REMEDIATION

DRAWING NUMBER

DRAWING TITLE

- WT-ZZ-XX-DR-C-0000 COVER SHEET
- WT-ZZ-XX-DR-C-0001 PLAN VIEW FOOTPRINT - SECTION 5
- WT-ZZ-XX-DR-C-0002 PLAN VIEW FOOTPRINT - SECTIONS 8 AND 8A
- WT-ZZ-XX-DR-C-0003 DESIGN CROSS-SECTION 1 (TW SECTION 5)
- WT-ZZ-XX-DR-C-0004 DESIGN CROSS-SECTION 2 (TW SECTION 5)
- WT-ZZ-XX-DR-C-0005 DESIGN CROSS-SECTION 3 (TW SECTION 8-8A)
- WT-ZZ-XX-DR-C-0006 DESIGN CROSS-SECTION 4 (TW SECTION 8-8A)
- WT-ZZ-XX-DR-C-0007 TYPICAL CROSS-SECTION CONCEPT 1 (TW SECTION 5)
- WT-ZZ-XX-DR-C-0008 TYPICAL CROSS-SECTION CONCEPT 2 (TW SECTION 8-8A)
- WT-ZZ-XX-DR-C-0009 DETAILS

NOTES

1. DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE RELATIVE TO AUSTRALIAN HEIGHT DATUM (AHD).
3. NO CONSTRUCTION SLOPE SHALL BE STEEPER THAN 3(H):4(V).
4. TRAMWAY 'NOT IN-SITU' WORKS TO BE TEMPORARILY REMOVED AND THEN RESTORED FOLLOWING CONSTRUCTION COMPLETION - FOLLOW HERITAGE CONSULTANT INSTRUCTIONS.
5. INFILL ROCK FOR ROCK BAGS TO BE MAXIMUM 200MM.
6. LARGER INFILL ROCK > 200MM SHALL BE USED TO FILL VOIDS IN BETWEEN ROCK BAGS AND TIMBER CRIB WORK
7. LARGER INFILL ROCK > 400MM SHALL BE RESERVED TO FORM A SMOOTH SURFACE LAYER OF FACE-CONNECTED ROCKS ON TOP OF THE FINISHED CRIB-WORK. NO STONE SMALLER THAN 200MM SHALL BE USED IN SURFACE. NO VOIDS SHALL BE DEEPER THAN 200MM.
8. SAFE DESIGN REGISTERED SUPPLIED AND TO BE UPDATED BY CONTRACTOR.
9. SAFETY SIGN TO BE MAINTAINED AT ALL TIMES.

TECHNICAL SPECIFICATIONS - SUMMARY

THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH THE TECHNICAL SPECIFICATION AND SAFETY IN DESIGN REPORT.

ALL MATERIALS AND WORKMANSHIP SHALL BE AS DEFINED IN THE SPECIFICATION DOCUMENT UNLESS NOTED OTHERWISE.

TEMPORARY WORKS SUCH AS ADDITIONAL WORKING PLATFORMS, AND THE TEMPORARY ACCESS PATH, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NOTE THAT THIS INCLUDES THE DESIGN AND CONSTRUCTION OF THE TEMPORARY WORKS.

ROCK INFILL: EXISTING CRIBB WALL STONE INFILL (OR EQUIVALENT) REUSED TO BACKFILL ROCK BAGS AND TEMPORARY SLOPES

STONE INFILL: EXISTING CRIBWALL STONES PLACED IN TIGHT INTERLOCKED SMOOTH SURFACE ON TOP OF THE ROCK INFILL TO PROVIDE SAFE ACCESS.

MATERIALS - ROCK ARMOUR

ASPECT	REQUIREMENT
PETROGRAPHY	FRESH, INTERLOCKING CRYSTALLINE, WITH FEW PORES, NO CLAY MIENRALS, AND NO SOLUBLE MINERALS
SPECIFIC GRAVITY	GREATER THAN 2.65
ABSORPTION	LESS THAN 1.2 PERCENT
SULPHATE SOUNDNESS	LESS THAN 2% LOSS IN SEVEN CYCLES
LOS ANGELES ABRASION	LESS THAN 25% LOSS
WET/DRY STRENGTH VARIATION	35%
AGGREGATE CRUSHING STRENGTH	160 kN

ALL LEVELS ARE RELEVANT TO AUSTRALIAN HEIGHT DATUM (AHD) UNLESS OTHERWISE STATED.

MATERIALS - ROCK GRADING

ROCK GRADING					
ROCK CLASS	M10	M50	M90	LEAST MINIMAL BREADTH (MM)	MAXIMUM AXIAL LENGTH (MM)
TYPE A	3000	4500	6000	590	2060
TYPE B	1000	2000	3000	470	1640

MATERIALS - ROCK BAGS

ROCK BAGS SHALL BE BLUEMONT KYOWA ECO-GREEN 2T OR SIMILAR APPROVED. ROCK BAGS SHALL BE SUPPLIED, FILLED AND INSTALLED FOLLOWING THE MANUFACTURERS INSTRUCTIONS. ROCK BAG FILL MATERIAL SHALL BE BETWEEN 50MM AND 175MM UNLESS OTHERWISE DIRECTED BY THE MANUFACTURER. FILL MATERIAL SHALL NOT CONSIST OF FLAT STONES. ROCK BAG FILL MATERIAL SHALL BE SIMILAR ORIGIN AND COMPOSITION TO THE TYPE A MATERIAL, OR OTHERWISE TO THE EXISTING CRIBWALL ROCK INFILL MATERIAL.

TESTING REQUIREMENTS

TESTS ARE TO BE UNDERTAKEN BY NATA ENDORSED FACILITIES. MATERIALS THAT DO NOT COMPLY WITH THE TECHNICAL SPECIFICATIONS SHALL NOT BE INCLUDED AS PART OF THE WORKS.

PETROGRAPHIC EXAMINATION REPORTS ARE TO BE PREPARED BY A SUITABLY QUALIFIED GEOLOGIST, CERTIFYING SUITABILITY AS ARMOUR IN THE LOCAL MARINE ENVIRONMENT OF LAKES ENTRANCE

THE SHAPE OF INDIVIDUAL PIECES OF ROCK ARMOUR SHOULD BE TESTED ACCORDING TO THE METHODS DESCRIBED IN EN13383 FOR MASS SIZE AND DISTRIBUTION.

DROP TESTS SHOULD BE PERFORMED IN THE QUARRY ON 1% OF THE ROCK ARMOUR FOR EACH ARMOUR SIZE. THE DROP TEST OF AN INDIVIDUAL ARMOUR ROCK IS DROPPED FROM 3M HEIGHT ONTO AN ANVIL MADE OF A BED OF OTHER STONES OF SIMILAR SIZE. THE SURFACE OF THE ANVIL SHOULD BE LEVELLED AND LAID IN A SINGLE COMPACT LAYER ON A 0.5 +/- 0.05M THICK LAYER OF CRUSHED ROCK AGGREGATE.

APPROVED SAMPLES OF THE FOLLOWING TYPES OF ROCK ARMOUR SHALL BE PROVIDED ON SITE:

- TYPE A AND B ROCK ARMOUR - MINIMUM 15M<sup>3</sup> SAMPLE, INCLUDING 3 INDIVIDUAL ROCKS REPRESENTING MAXIMUM, MEAN AND MINIMUM STONE WEIGHTS WITHIN THE ALLOWABLE RANGE.

TOLERANCES

THE CREST POSITION OF THE SEAWALL SHALL BE WITHIN 0.3M OF THE PLAN POSITION SHOWN ON THE DRAWINGS. THE CREST LEVEL SHALL BE WITHIN +0.3M, -0.0M AND SHALL NOT VARY BY MORE THAN 0.3M WHEN MEASURED OVER ANY 5.0M LENGTH OPF SECTION.

THE TOE OF ANY ARMOUR SLOPE SHALL NOT BE ABOVE THE LEVEL SHOWN IN DRAWINGS.

THE SIDE SLOPES SHALL BE WITHIN +0.1/-0.1 OF THE NOMINATED GRADIENT (I.E. FOR THE NOMINATED GRADIENT OF 1:3.0, THE TOLERANCE IS BETWEEN 1:2.9 AND 1:3.1.

NOWHERE ON THE ROCK ARMOUR SHALL THE THICKNESS OF ROCK ARMOUR BE LESS THAN THAT SHOWN ON THE DRAWINGS.

NOTES

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**TENDER**

P5	13.12.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P4	XX.11.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P4	XX.11.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P3		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P2		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P1		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
REV	DATE	DESCRIPTION	BY	CHK	APP

REVISIONS

PROJECT  
LAKES ENTRANCE TRAINING WALL SECTION 5, 8, 8A ROCK ARMOUR REPAIR



BIM REF.  
23010184-WT-ZZ-XX-DR-C-0000

TITLE  
COVER SHEET



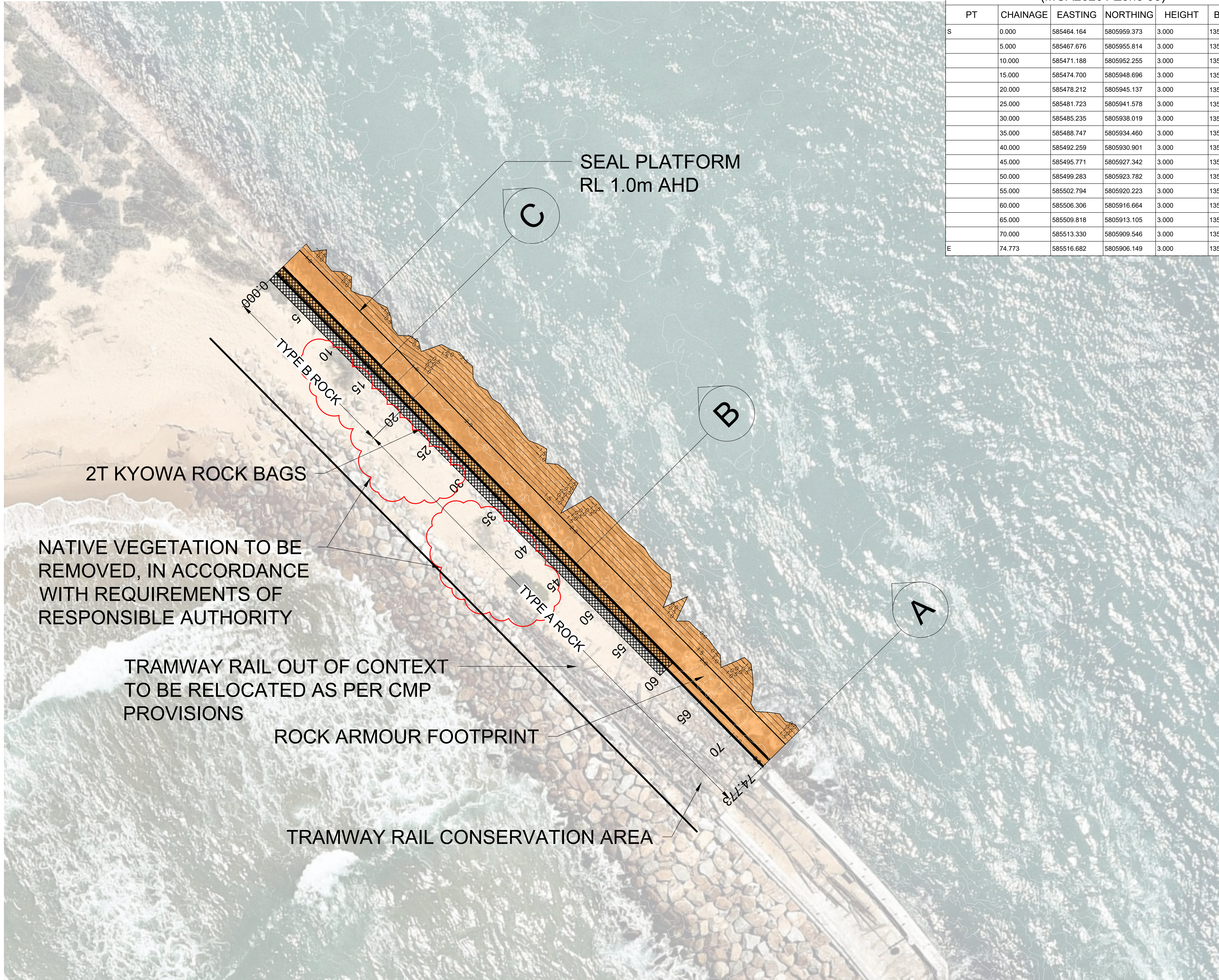
DRAWN	BAC	CHECKED	GXC	APPROVED	GXC
DATE	NOVEMBER 2024	SCALE	AT A1 -	REF.	23010184-01-0000
DRAWING No.	WT-ZZ-XX-DR-C-0000	SUITABILITY	S1	REVISION	P5



**CONTROL POINT SCHEDULE WALL 5  
(MGA2020 / Zone 55)**

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
S	0.000	585464.164	5805959.373	3.000	135°22'58.32"
	5.000	585467.676	5805955.814	3.000	135°22'58.32"
	10.000	585471.188	5805952.255	3.000	135°22'58.32"
	15.000	585474.700	5805948.696	3.000	135°22'58.32"
	20.000	585478.212	5805945.137	3.000	135°22'58.32"
	25.000	585481.723	5805941.578	3.000	135°22'58.32"
	30.000	585485.235	5805938.019	3.000	135°22'58.32"
	35.000	585488.747	5805934.460	3.000	135°22'58.32"
	40.000	585492.259	5805930.901	3.000	135°22'58.32"
	45.000	585495.771	5805927.342	3.000	135°22'58.32"
	50.000	585499.283	5805923.782	3.000	135°22'58.32"
	55.000	585502.794	5805920.223	3.000	135°22'58.32"
	60.000	585506.306	5805916.664	3.000	135°22'58.32"
	65.000	585509.818	5805913.105	3.000	135°22'58.32"
	70.000	585513.330	5805909.546	3.000	135°22'58.32"
E	74.773	585516.682	5805906.149	3.000	135°22'58.32"

- NOTES
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NATIVE VEGETATION TO BE REMOVED, IN ACCORDANCE WITH REQUIREMENTS OF RESPONSIBLE AUTHORITY

TRAMWAY RAIL OUT OF CONTEXT TO BE RELOCATED AS PER CMP PROVISIONS

ROCK ARMOUR FOOTPRINT

TRAMWAY RAIL CONSERVATION AREA

**TENDER**

REV	DATE	DESCRIPTION	BY	CHK	APP
P6	18.12.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P5	13.12.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P4	XX.11.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P3		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P2		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P1		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC

REVISIONS  
PROJECT  
**LAKES ENTRANCE TRAINING WALL SECTION 5, 8, 8A ROCK ARMOUR REPAIR**



BIM REF.  
**23010184-WT-ZZ-XX-DR-C-0001**

TITLE  
**PLAN VIEW FOOTPRINT - SECTION 5**

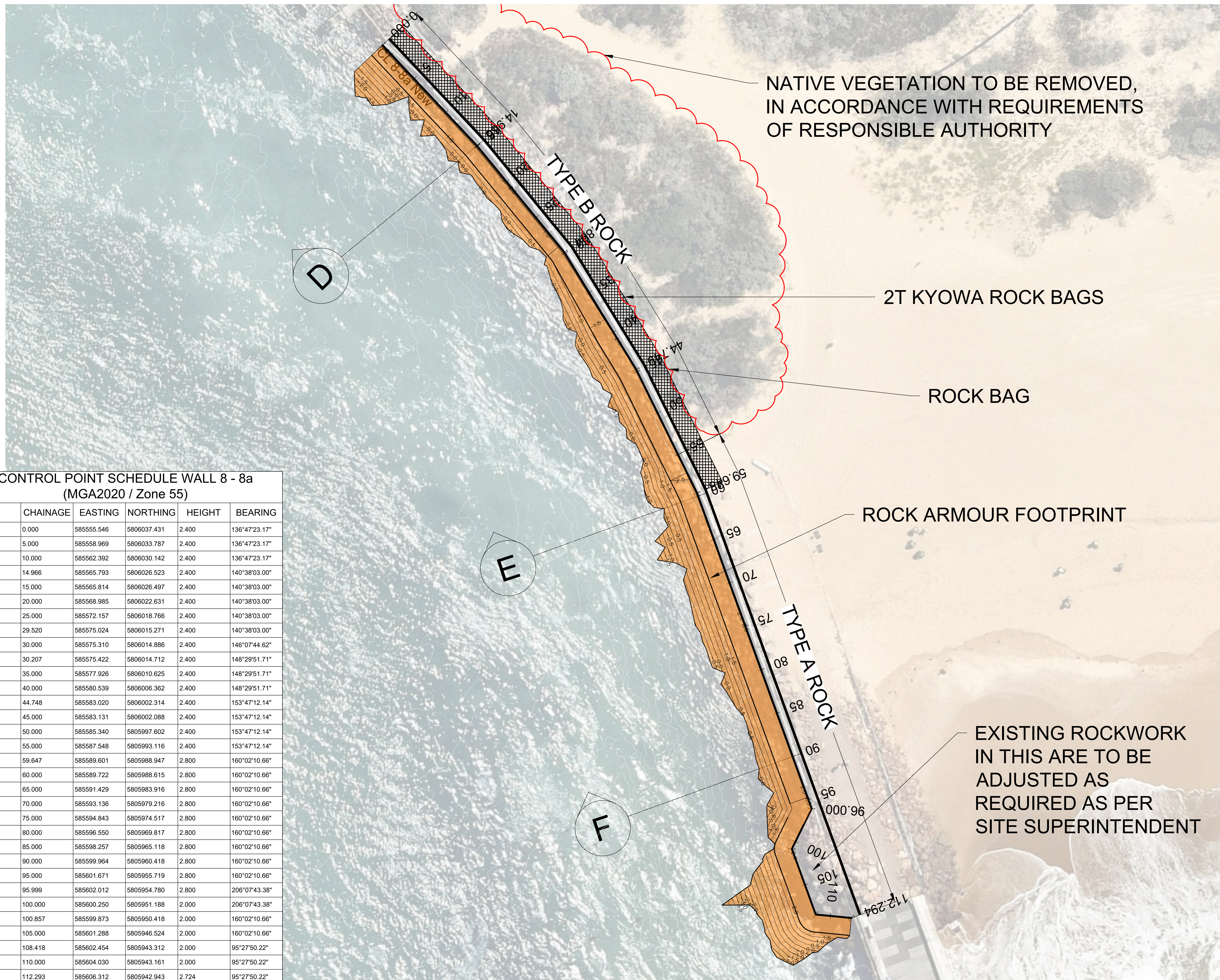


DRAWN	CHECKED	APPROVED
MJB	GXC	GXC

DATE	SCALE	REF
NOVEMBER 2024	AT A1 1:200	23010184-01-0001

DRAWING No.	SUITABILITY	REVISION
WT-ZZ-XX-DR-C-0001	S1	P6





NATIVE VEGETATION TO BE REMOVED, IN ACCORDANCE WITH REQUIREMENTS OF RESPONSIBLE AUTHORITY

2T KYOWA ROCK BAGS

ROCK BAG

ROCK ARMOUR FOOTPRINT

EXISTING ROCKWORK IN THIS ARE TO BE ADJUSTED AS REQUIRED AS PER SITE SUPERINTENDENT

**CONTROL POINT SCHEDULE WALL 8 - 8a (MGA2020 / Zone 55)**

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
S	0.000	585555.546	5806037.431	2.400	136°47'23.17"
	5.000	585558.969	5806033.787	2.400	136°47'23.17"
	10.000	585562.392	5806030.142	2.400	136°47'23.17"
DIS	14.966	585565.793	5806026.523	2.400	140°38'03.00"
	15.000	585565.814	5806026.497	2.400	140°38'03.00"
	20.000	585568.985	5806022.631	2.400	140°38'03.00"
	25.000	585572.157	5806018.766	2.400	140°38'03.00"
TC	29.520	585575.024	5806015.271	2.400	140°38'03.00"
	30.000	585575.310	5806014.886	2.400	146°07'44.62"
CT	30.207	585575.422	5806014.712	2.400	148°29'51.71"
	35.000	585577.926	5806010.625	2.400	148°29'51.71"
	40.000	585580.539	5806006.362	2.400	148°29'51.71"
DIS	44.748	585583.020	5806002.314	2.400	153°47'12.14"
	45.000	585583.131	5806002.088	2.400	153°47'12.14"
	50.000	585585.340	5805997.602	2.400	153°47'12.14"
	55.000	585587.548	5805993.116	2.400	153°47'12.14"
DIS	59.647	585589.601	5805988.947	2.800	160°02'10.66"
	60.000	585589.722	5805988.615	2.800	160°02'10.66"
	65.000	585591.429	5805983.916	2.800	160°02'10.66"
	70.000	585593.136	5805979.216	2.800	160°02'10.66"
	75.000	585594.843	5805974.517	2.800	160°02'10.66"
	80.000	585596.550	5805969.817	2.800	160°02'10.66"
	85.000	585598.257	5805965.118	2.800	160°02'10.66"
	90.000	585599.964	5805960.418	2.800	160°02'10.66"
	95.000	585601.671	5805955.719	2.800	160°02'10.66"
DIS	95.999	585602.012	5805954.780	2.800	206°07'43.38"
	100.000	585600.250	5805951.188	2.000	206°07'43.38"
DIS	100.857	585599.873	5805950.418	2.000	160°02'10.66"
	105.000	585601.288	5805946.524	2.000	160°02'10.66"
DIS	108.418	585602.454	5805943.312	2.000	95°27'50.22"
	110.000	585604.030	5805943.161	2.000	95°27'50.22"
E	112.293	585606.312	5805942.943	2.724	95°27'50.22"

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**TENDER**

REV	DATE	DESCRIPTION	BY	CHK	APP
P6	18.12.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
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P2		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P1		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC

PROJECT  
**LAKES ENTRANCE TRAINING WALL SECTION 5, 8, 8A ROCK ARMOUR REPAIR**



BIM REF:  
23010184-WT-ZZ-XX-DR-C-0002

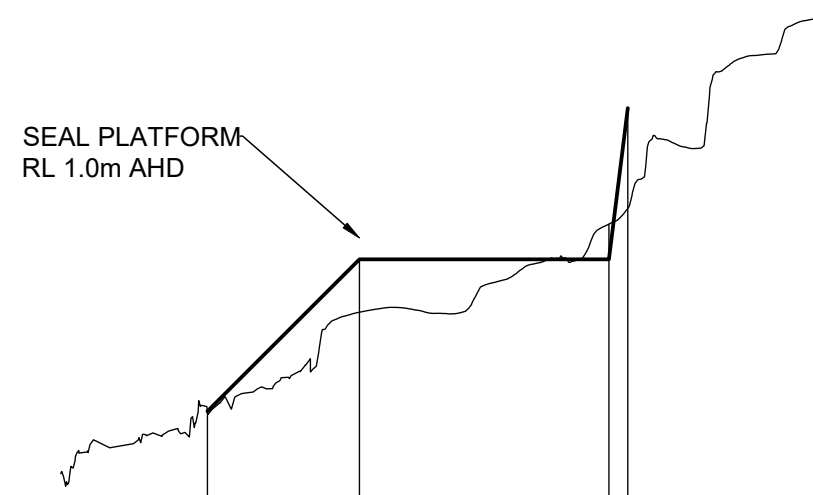
TITLE  
**PLAN VIEW FOOTPRINT - SECTIONS 8 AND 8A**

15 Business Park Dr., Notting Hill VIC 3168  
Tel +61 (0)3 8533 8800 Email info@watertech.com.au Website www.watertech.com.au

DRAWN	MJB	CHECKED	GXC	APPROVED	GXC
DATE	NOVEMBER 2024	SCALE	AT A1 1:200	REF.	23010184-01-0002
DRAWING No.	WT-ZZ-XX-DR-C-0002	SUITABILITY	S1	REVISION	P6



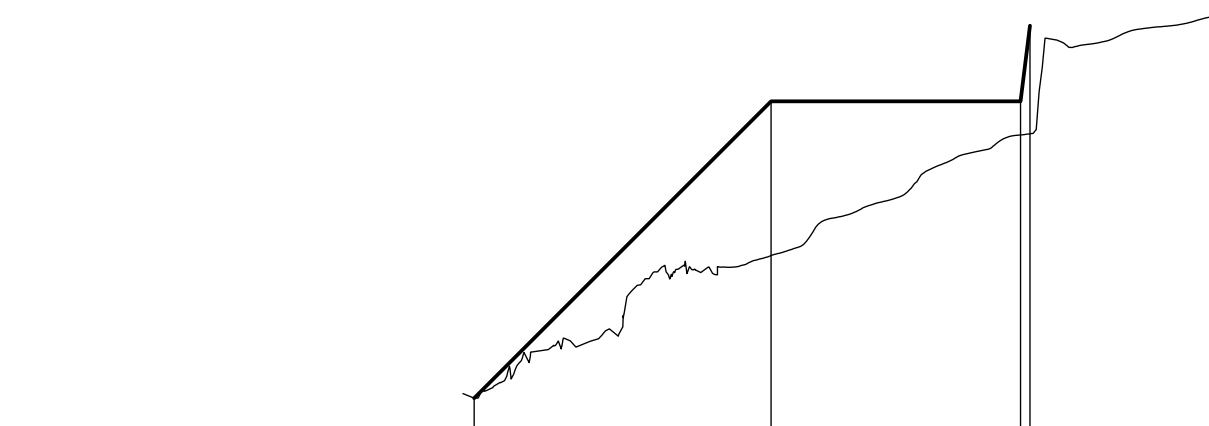
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DATUM R.L. -4.000

DESIGN LEVEL	-1.011	1.000	1.000	3.000
EXISTING LEVEL	-1.011	0.300	1.465	1.674
OFFSET	-5.561	-3.550	-0.250	0.000

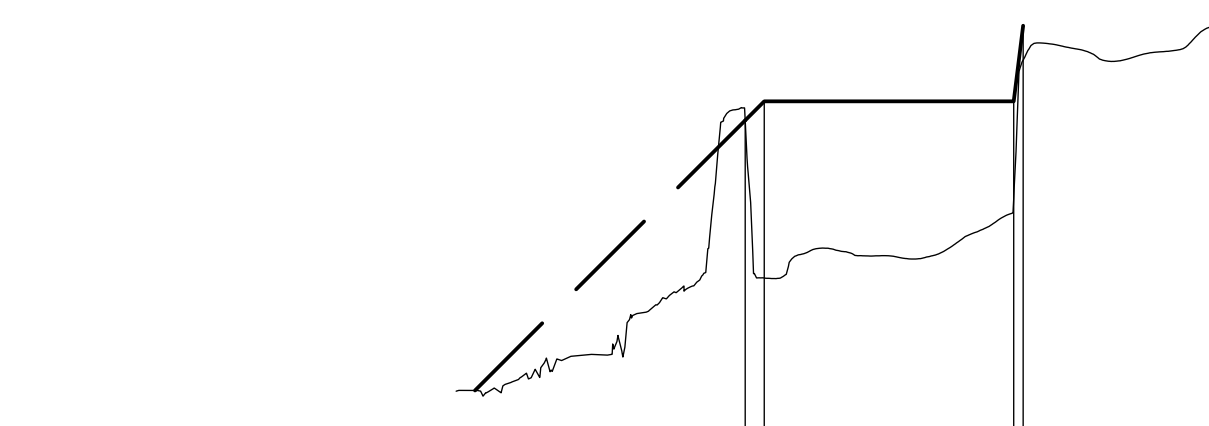
CHAINAGE 10.000



DATUM R.L. -3.000

DESIGN LEVEL	-1.927	2.000	2.000	3.000
EXISTING LEVEL	-1.927	-0.039	1.555	1.570
OFFSET	-7.352	-3.425	-0.125	0.000

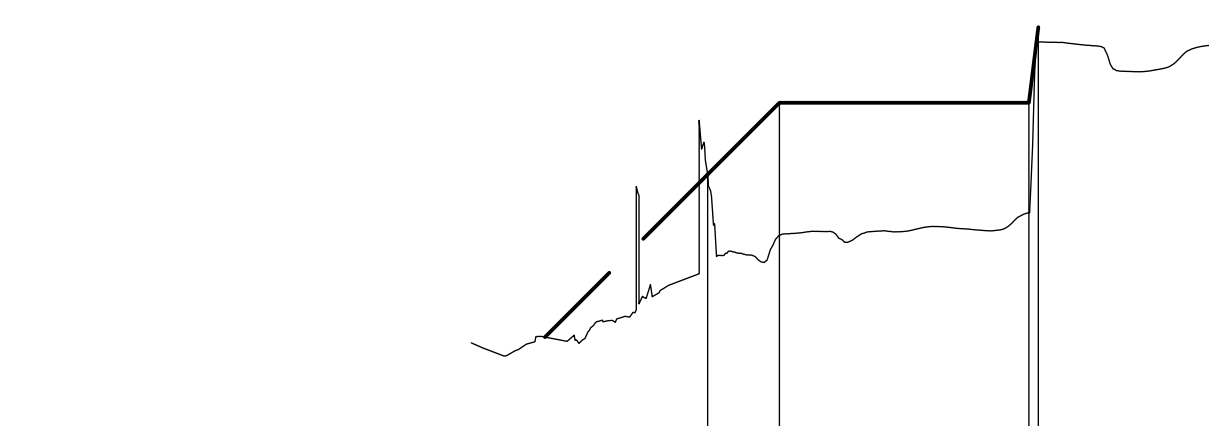
CHAINAGE 25.000



DATUM R.L. -3.000

DESIGN LEVEL	1.748	2.000	2.000	3.000
EXISTING LEVEL	1.748	-0.338	0.709	2.545
OFFSET	-3.677	-3.425	-0.125	0.000

CHAINAGE 40.000



DATUM R.L. -3.000

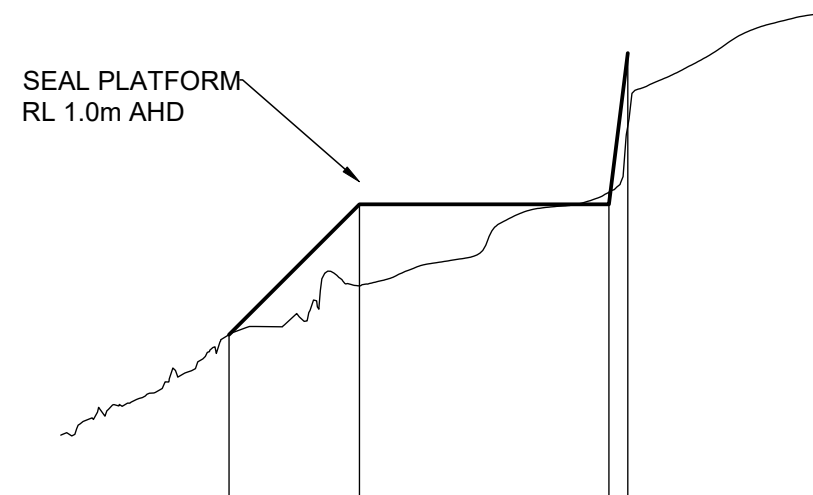
DESIGN LEVEL	1.051	2.000	2.000	3.000
EXISTING LEVEL	1.051	0.246	0.543	2.803
OFFSET	-4.374	-3.425	-0.125	0.000

CHAINAGE 55.000

DATUM R.L. -3.000

DESIGN LEVEL	-0.003	2.000	2.000	3.000
EXISTING LEVEL	-0.003	0.316	0.636	2.316
OFFSET	-5.428	-3.425	-0.125	0.000

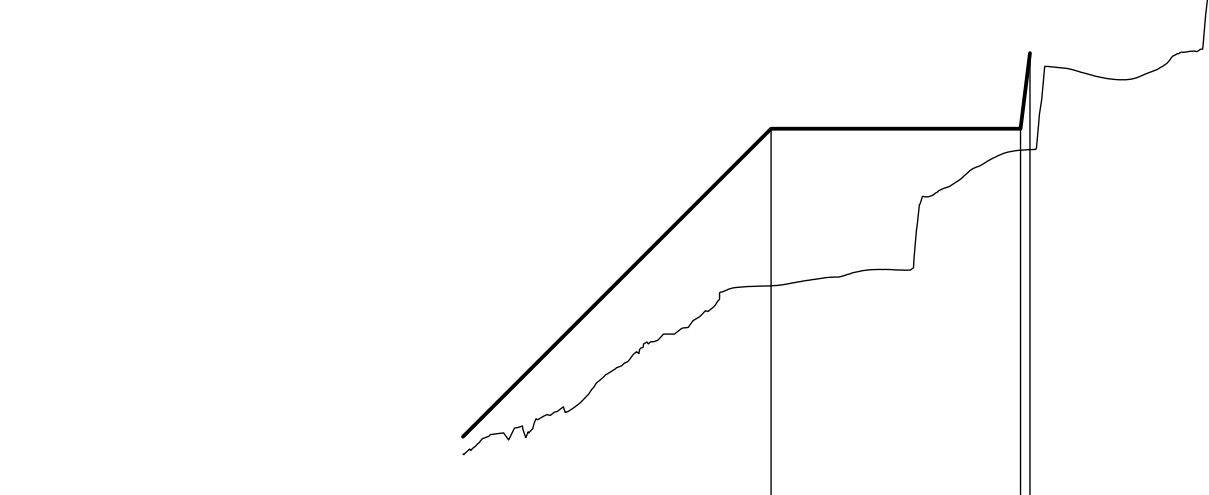
CHAINAGE 60.000



DATUM R.L. -4.000

DESIGN LEVEL	-0.724	1.000	1.000	3.000
EXISTING LEVEL	-0.724	-0.079	1.159	2.034
OFFSET	-5.274	-3.550	-0.250	0.000

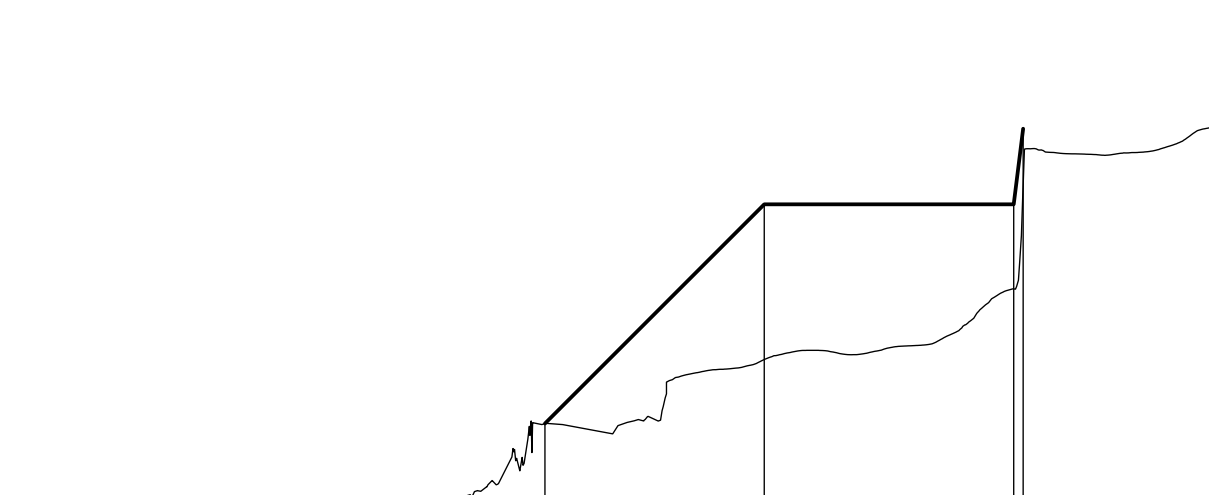
CHAINAGE 5.000



DATUM R.L. -4.000

DESIGN LEVEL	2.000	2.000	2.000	3.000
EXISTING LEVEL	1.715	1.723	1.715	1.723
OFFSET	-3.425	-0.079	-0.125	0.000

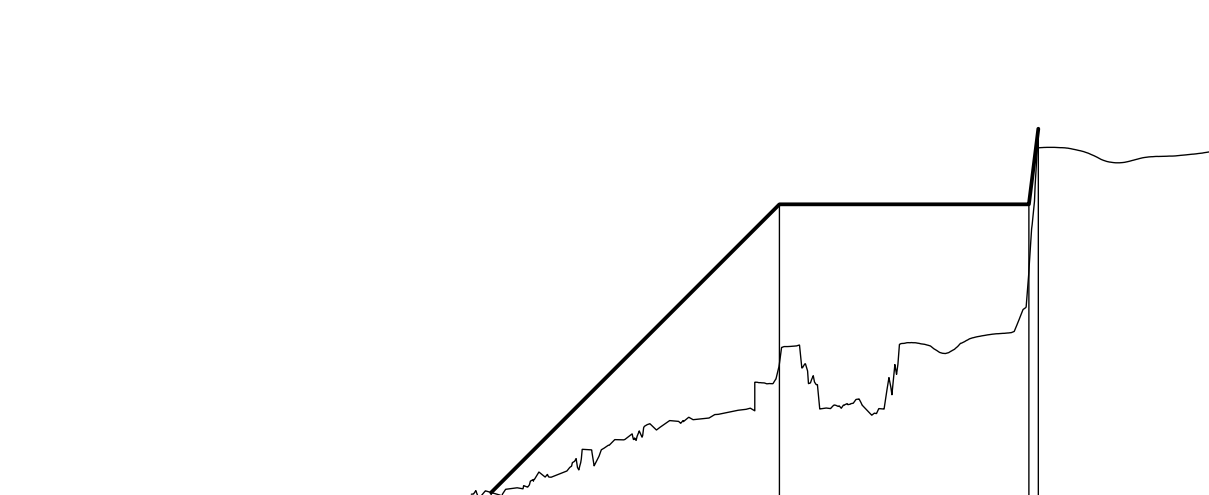
CHAINAGE 20.000



DATUM R.L. -3.000

DESIGN LEVEL	-0.900	2.000	2.000	3.000
EXISTING LEVEL	-0.900	-0.054	0.881	2.252
OFFSET	-6.325	-3.425	-0.125	0.000

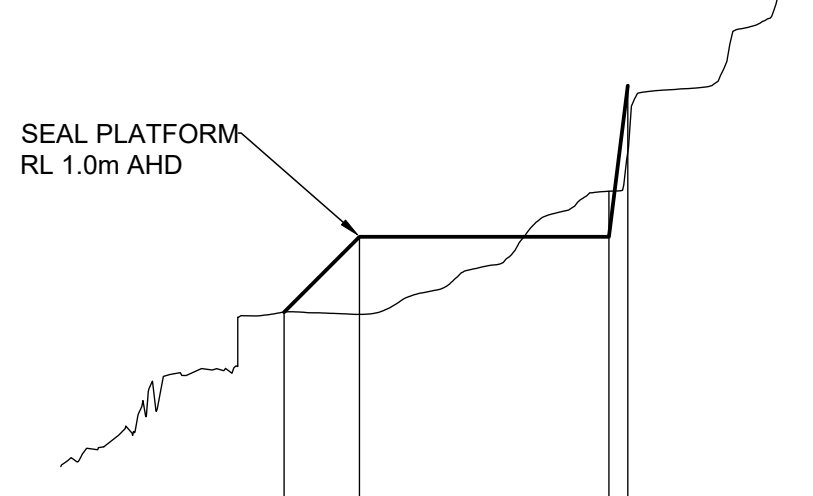
CHAINAGE 35.000



DATUM R.L. -3.000

DESIGN LEVEL	-1.813	2.000	2.000	3.000
EXISTING LEVEL	-1.813	-0.107	1.112	2.746
OFFSET	-7.238	-3.425	-0.125	0.000

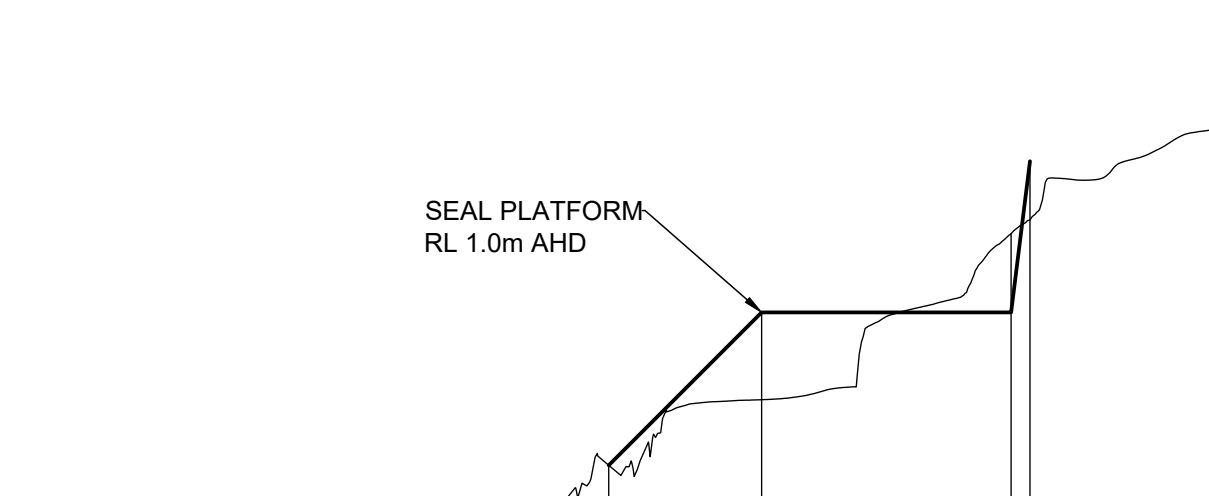
CHAINAGE 50.000



DATUM R.L. -4.000

DESIGN LEVEL	0.004	1.000	1.000	3.000
EXISTING LEVEL	0.004	-0.025	1.603	2.121
OFFSET	-4.546	-3.550	-0.250	0.000

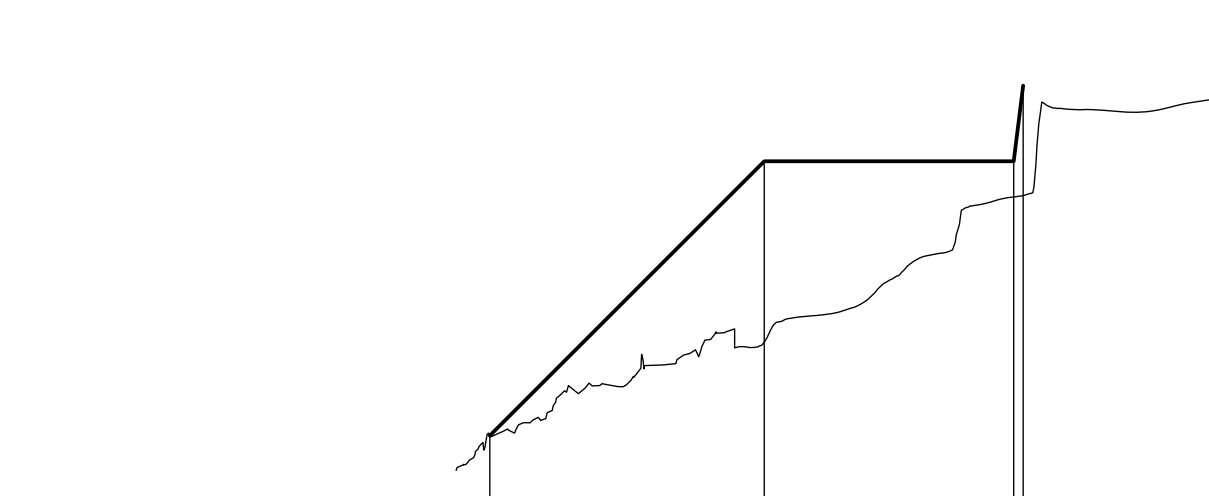
CHAINAGE 0.000



DATUM R.L. -3.000

DESIGN LEVEL	-1.022	1.000	1.000	3.000
EXISTING LEVEL	-1.022	-0.154	2.041	2.226
OFFSET	-5.572	-3.550	-0.250	0.000

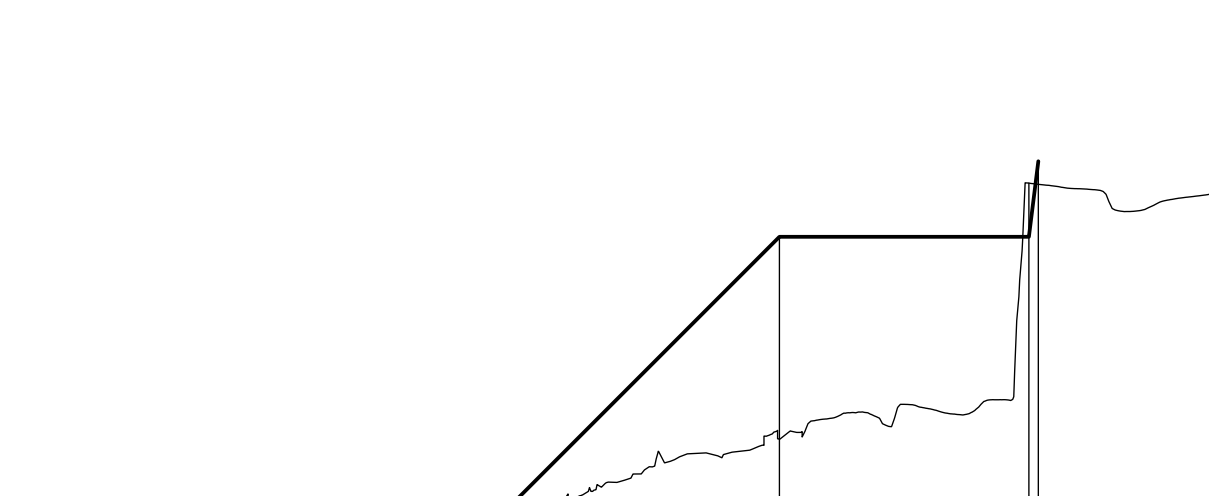
CHAINAGE 15.000



DATUM R.L. -4.000

DESIGN LEVEL	-1.630	2.000	2.000	3.000
EXISTING LEVEL	-1.630	-0.394	1.527	1.545
OFFSET	-7.055	-3.425	-0.125	0.000

CHAINAGE 30.000



DATUM R.L. -3.000

DESIGN LEVEL	-1.848	2.000	2.000	3.000
EXISTING LEVEL	-1.848	-0.676	2.711	2.695
OFFSET	-7.273	-3.425	-0.125	0.000

CHAINAGE 45.000

**TENDER**

REV	DATE	DESCRIPTION	BY	CHK	APP
P5	13.12.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P4	XX.11.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P3		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P2		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P1		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC

REVISIONS

PROJECT  
**LAKES ENTRANCE TRAINING WALL SECTION 5, 8, 8A ROCK ARMOUR REPAIR**



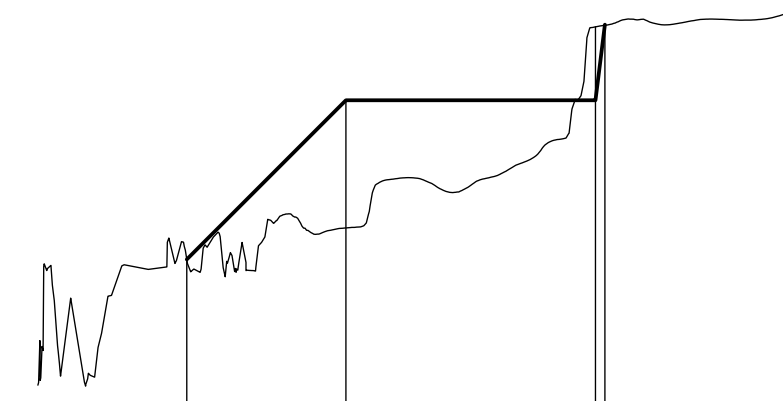
BIM REF.  
23010184-WT-ZZ-XX-DR-C-0003

TITLE  
**DESIGN CROSS-SECTION 1 (TW SECTION 5)**



DRAWN	MJB	CHECKED	GXC	APPROVED	GXC
DATE	NOVEMBER 2024	SCALE	AS SHOWN	REF.	23010184-01-0003

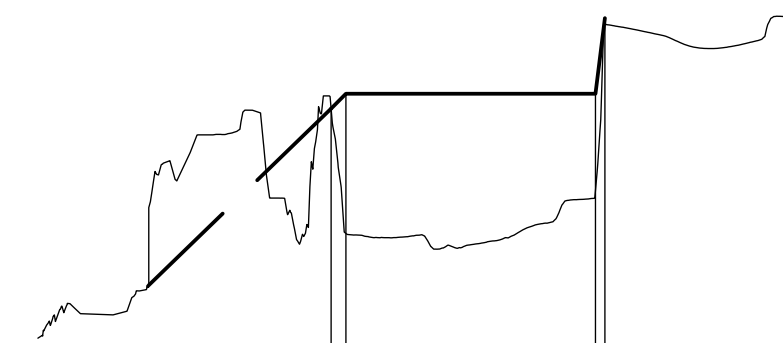
DRAWING No.	WT-ZZ-XX-DR-C-0003	SUITABILITY	S1	REVISION	P5
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DATUM R.L. - 3.000

DESIGN LEVEL	-0.105	2.000	2.000	3.000
EXISTING LEVEL	-0.105	0.312	2.971	2.992
OFFSET	-5.530	-3.425	-0.125	0.000

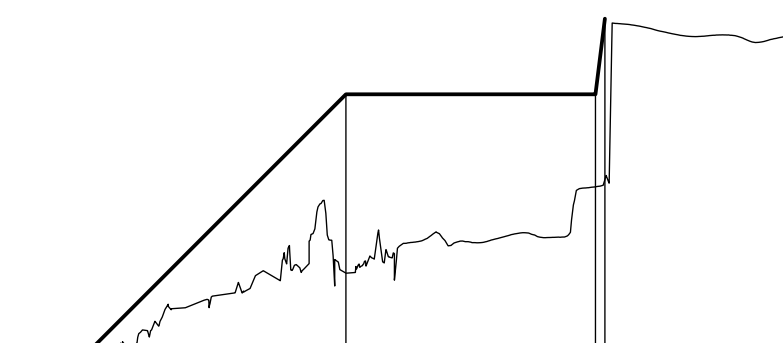
CHAINAGE 74.773



DATUM R.L. - 3.000

DESIGN LEVEL	1.803	2.000	2.000	3.000
EXISTING LEVEL	1.803	0.152	0.717	2.923
OFFSET	-3.622	-3.425	-0.125	0.000

CHAINAGE 70.000



DATUM R.L. - 3.000

DESIGN LEVEL	-1.435	2.000	2.000	3.000
EXISTING LEVEL	-1.435	-0.365	0.776	0.871
OFFSET	-6.860	-3.425	-0.125	0.000

CHAINAGE 65.000

NOTES

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**TENDER**

REV	DATE	DESCRIPTION	BY	CHK	APP
P5	13.12.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P4	XX.11.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P3		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P2		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P1		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC

PROJECT  
**LAKES ENTRANCE TRAINING WALL SECTION 5, 8, 8A ROCK ARMOUR REPAIR**



BIM REF.  
23010184-WT-ZZ-XX-DR-C-0004

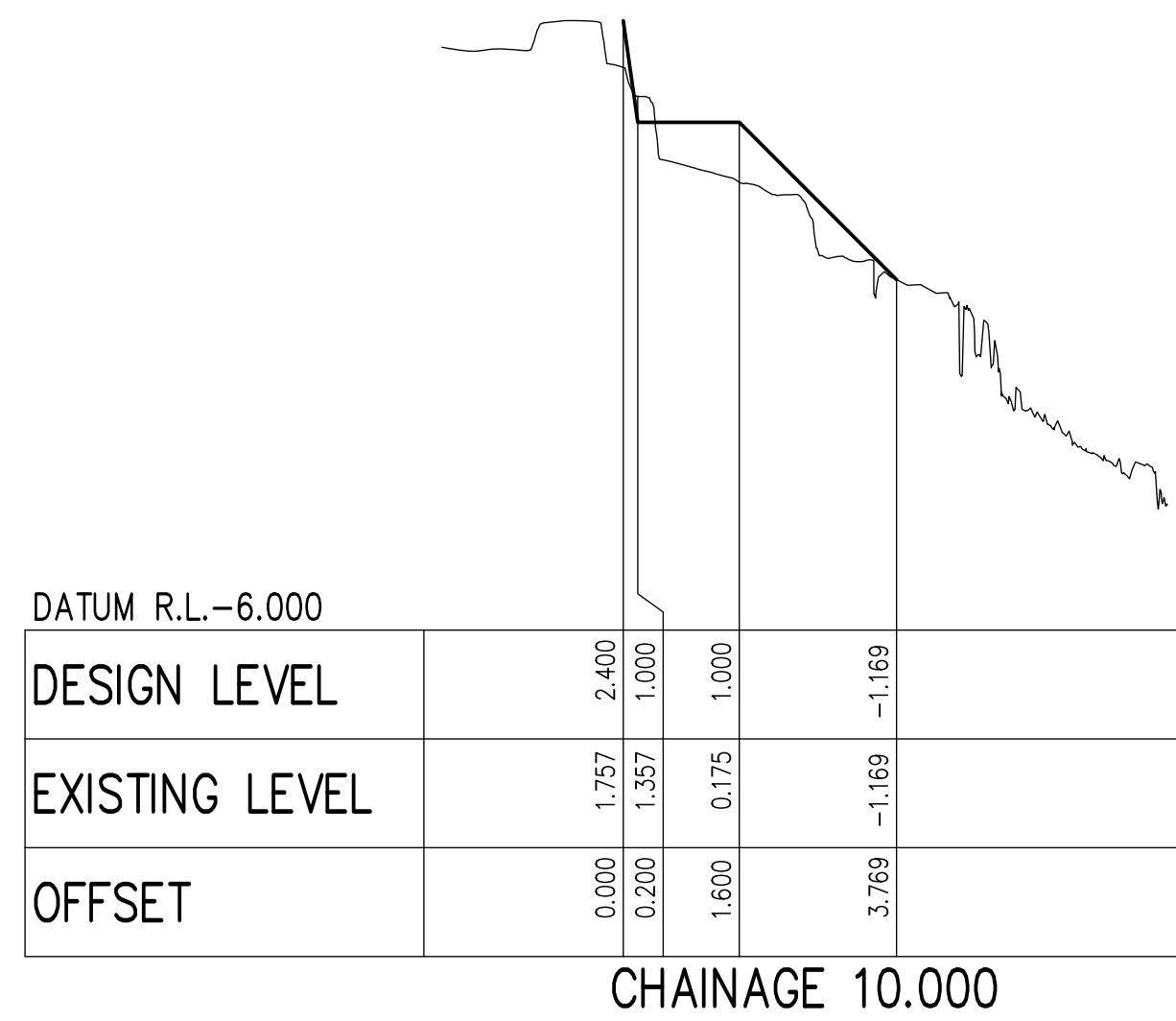
TITLE  
**DESIGN CROSS-SECTION 2 (TW SECTION 5)**



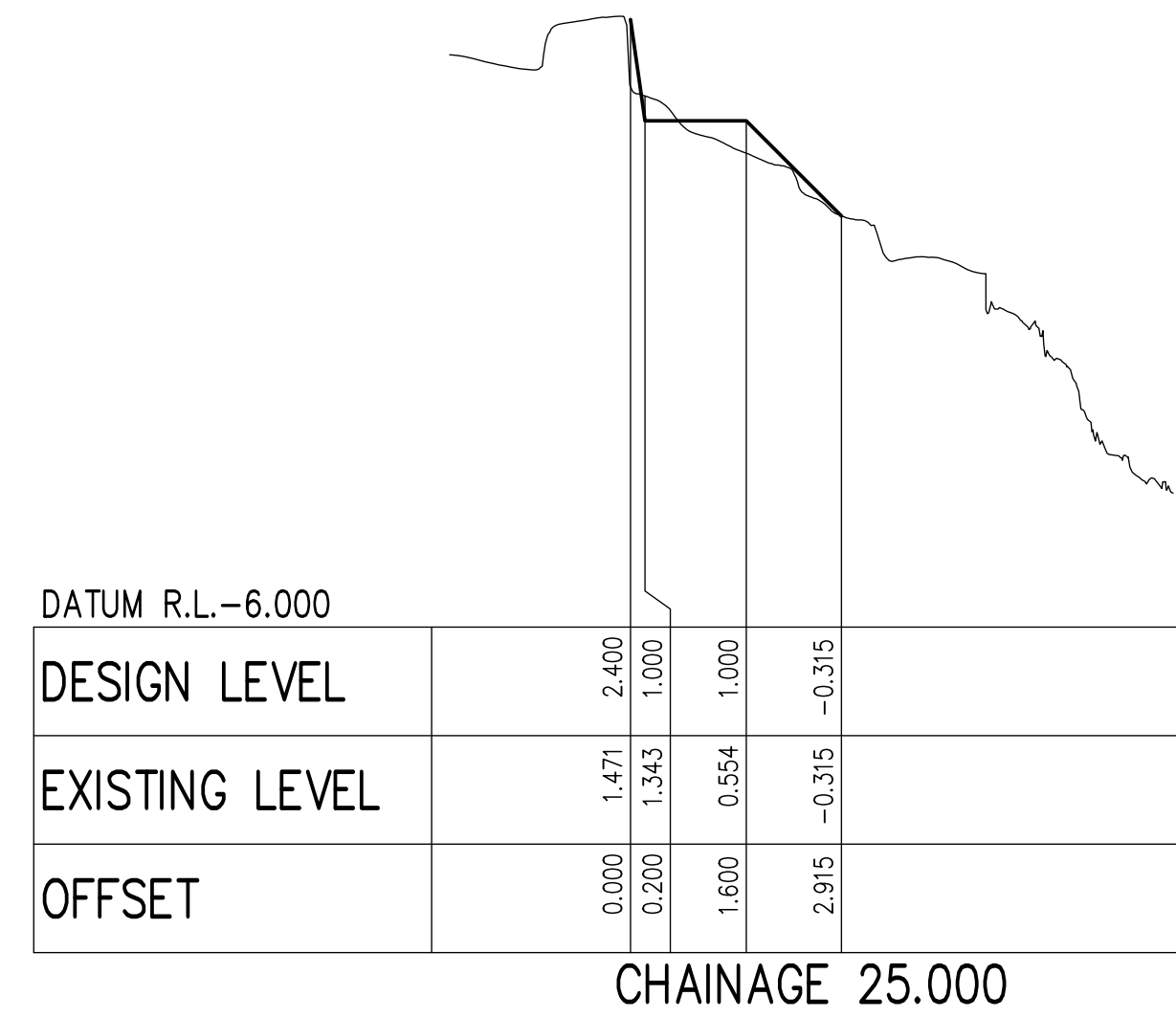
DRAWN	MJB	CHECKED	GXC	APPROVED	GXC
DATE	NOVEMBER 2024	SCALE	AS SHOWN	REF.	23010184-01-0004

DRAWING No.	WT-ZZ-XX-DR-C-0004	SUITABILITY	S1	REVISION	P5
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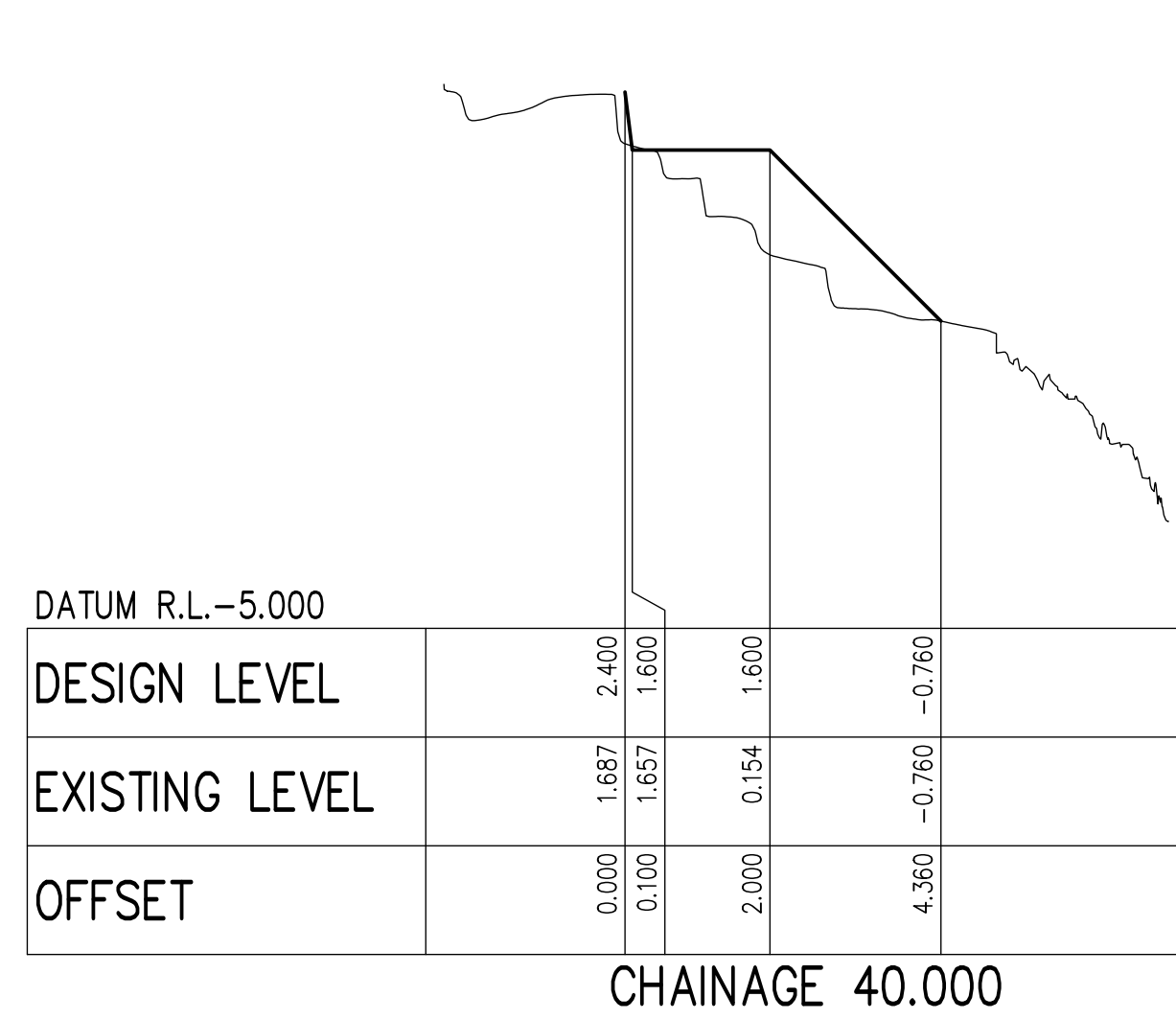
1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. ALL COORDINATES ARE IN METERS RELATIVE TO MGA 2020 ZONE 55.
3. ALL MATERIALS AND WORKMANSHIP WILL BE AS DEFINED IN THE SPECIFICATION UNLESS NOTED OTHERWISE.



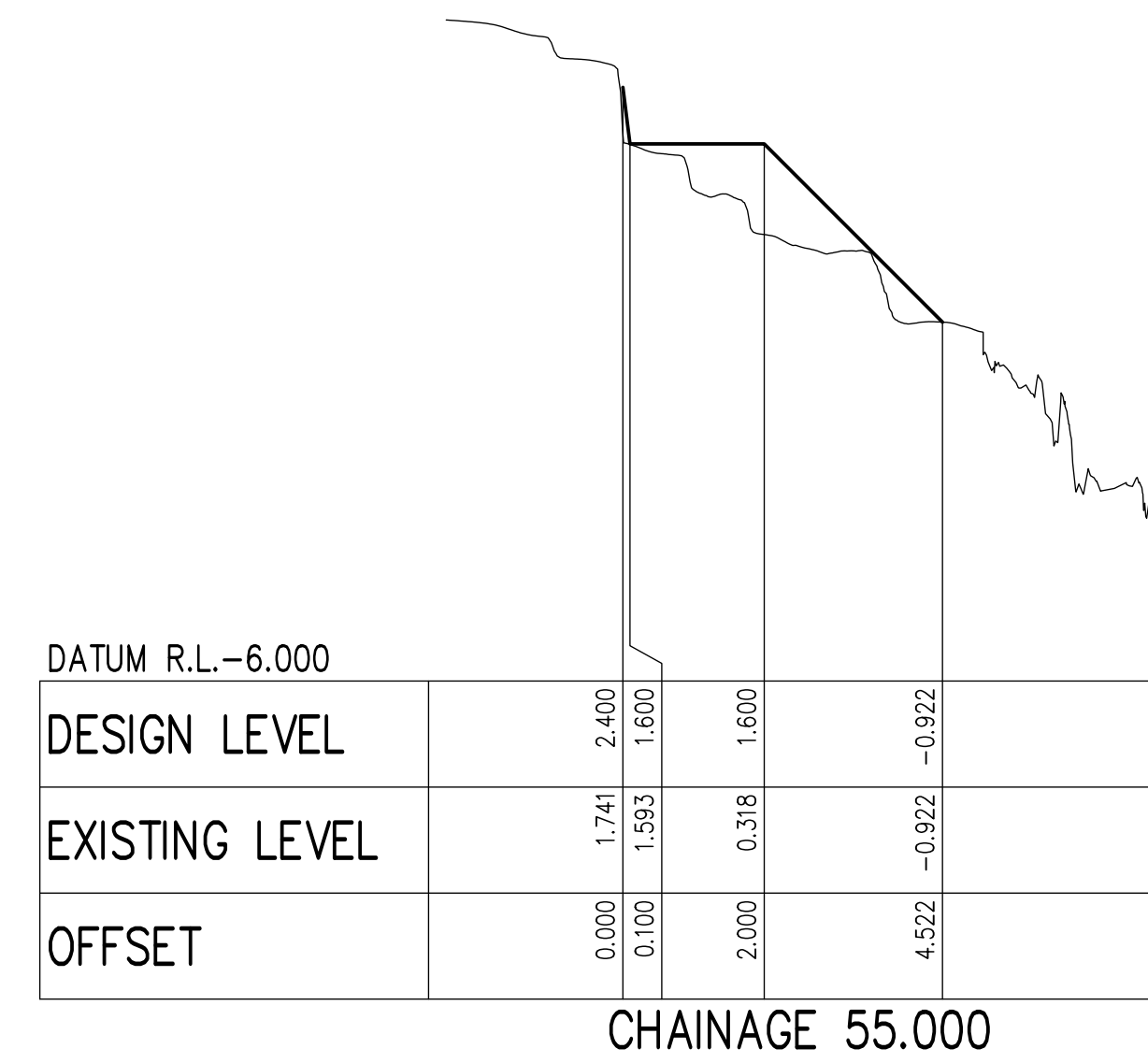
CHAINAGE 10.000



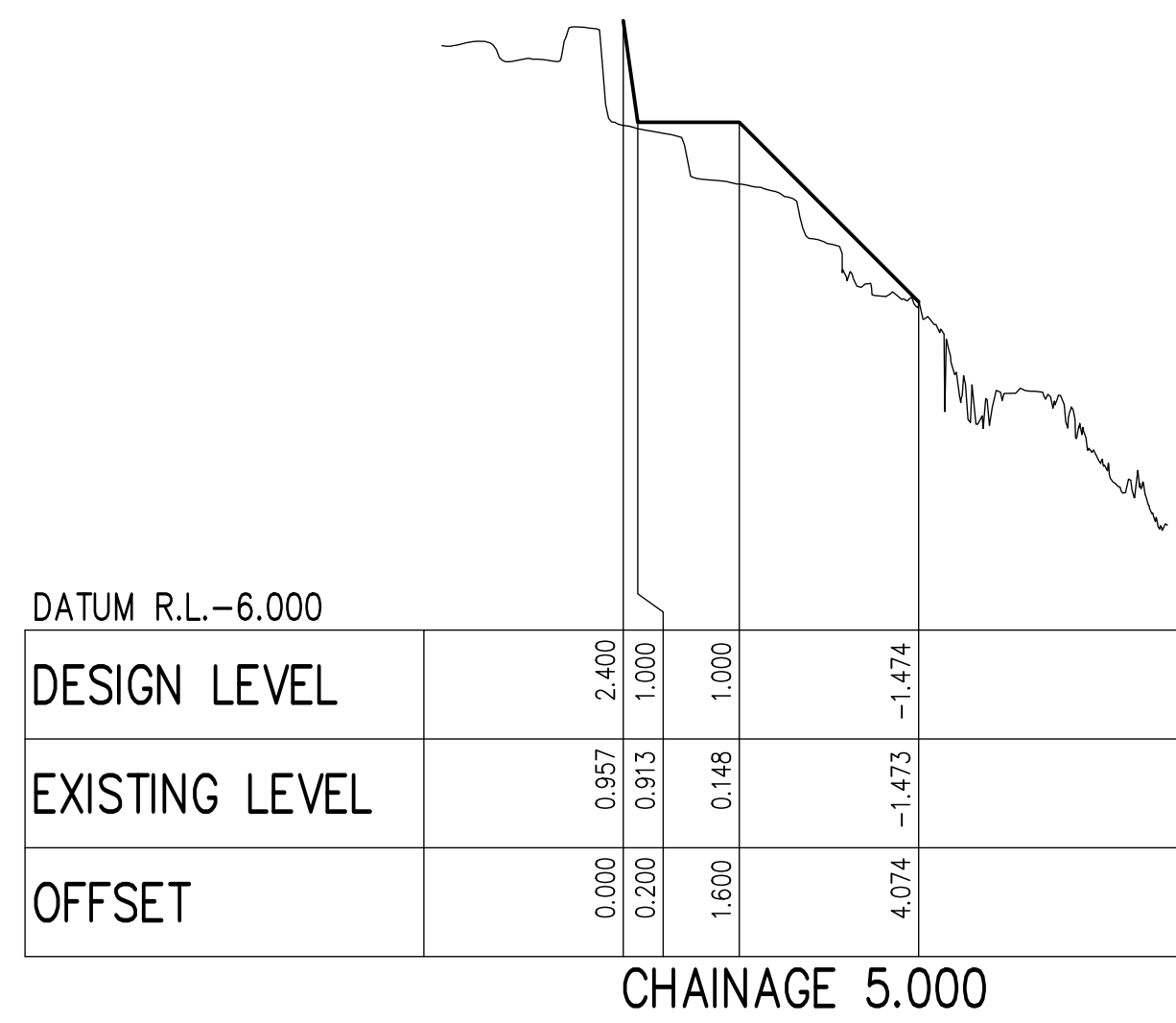
CHAINAGE 25.000



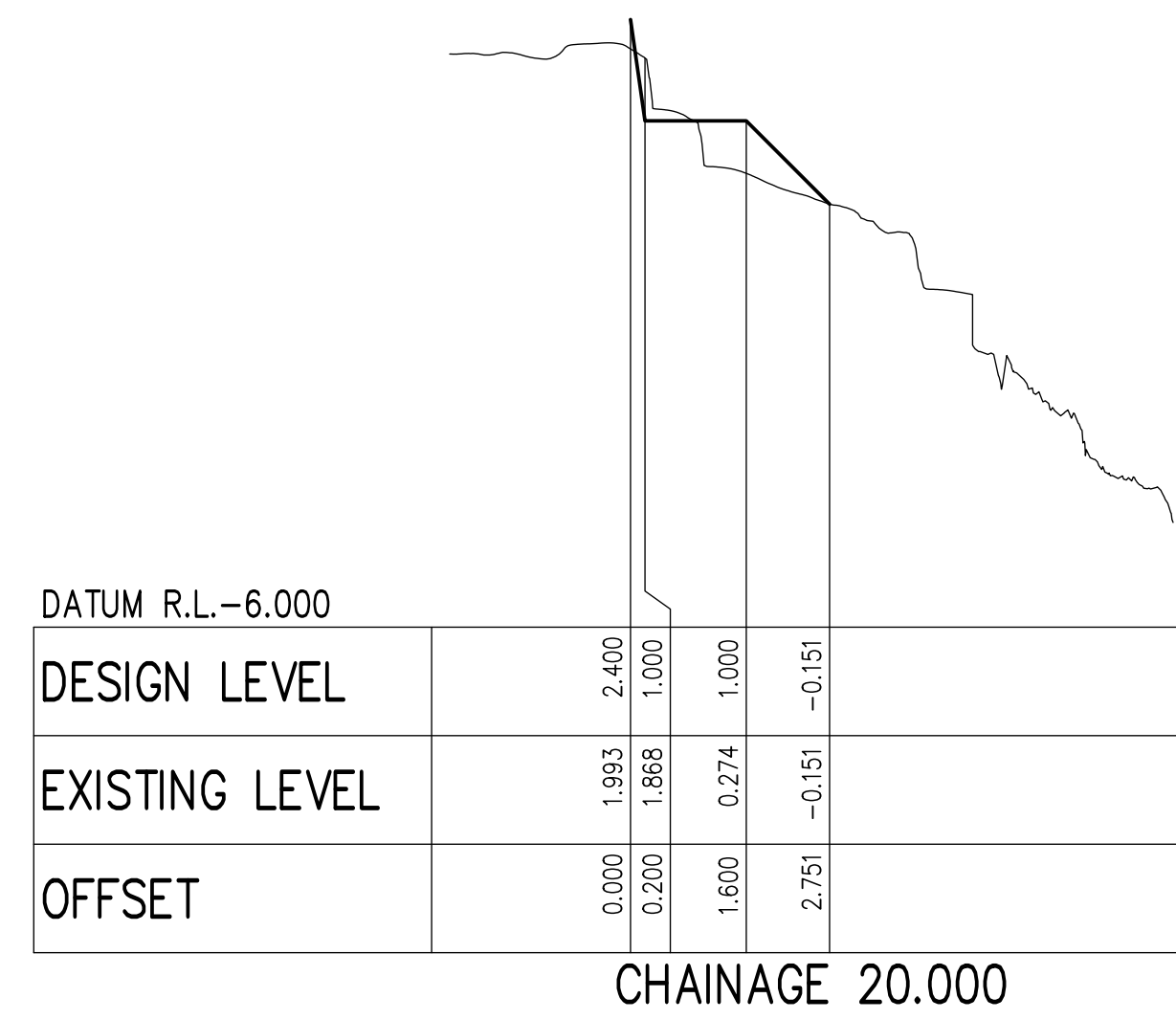
CHAINAGE 40.000



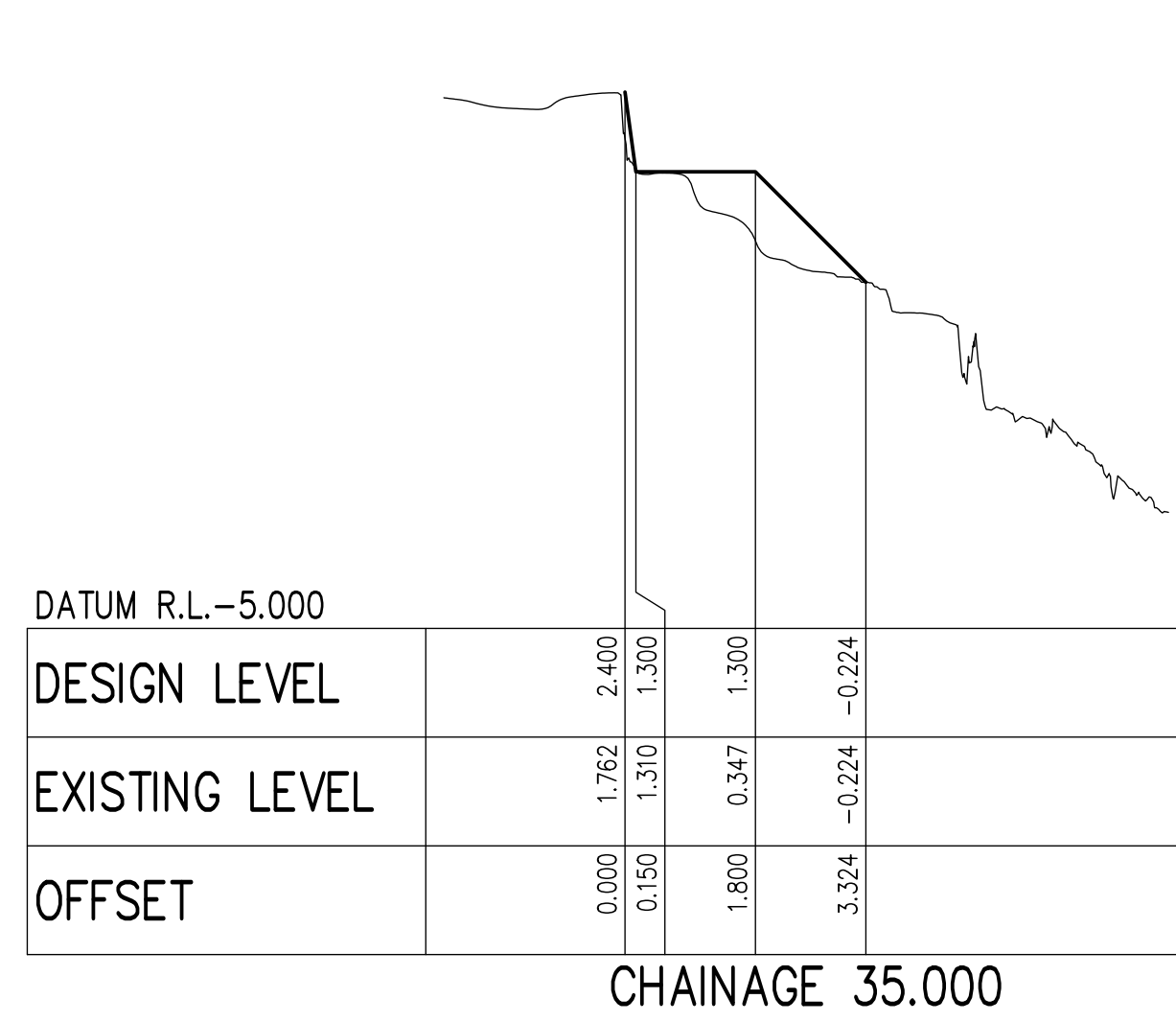
CHAINAGE 55.000



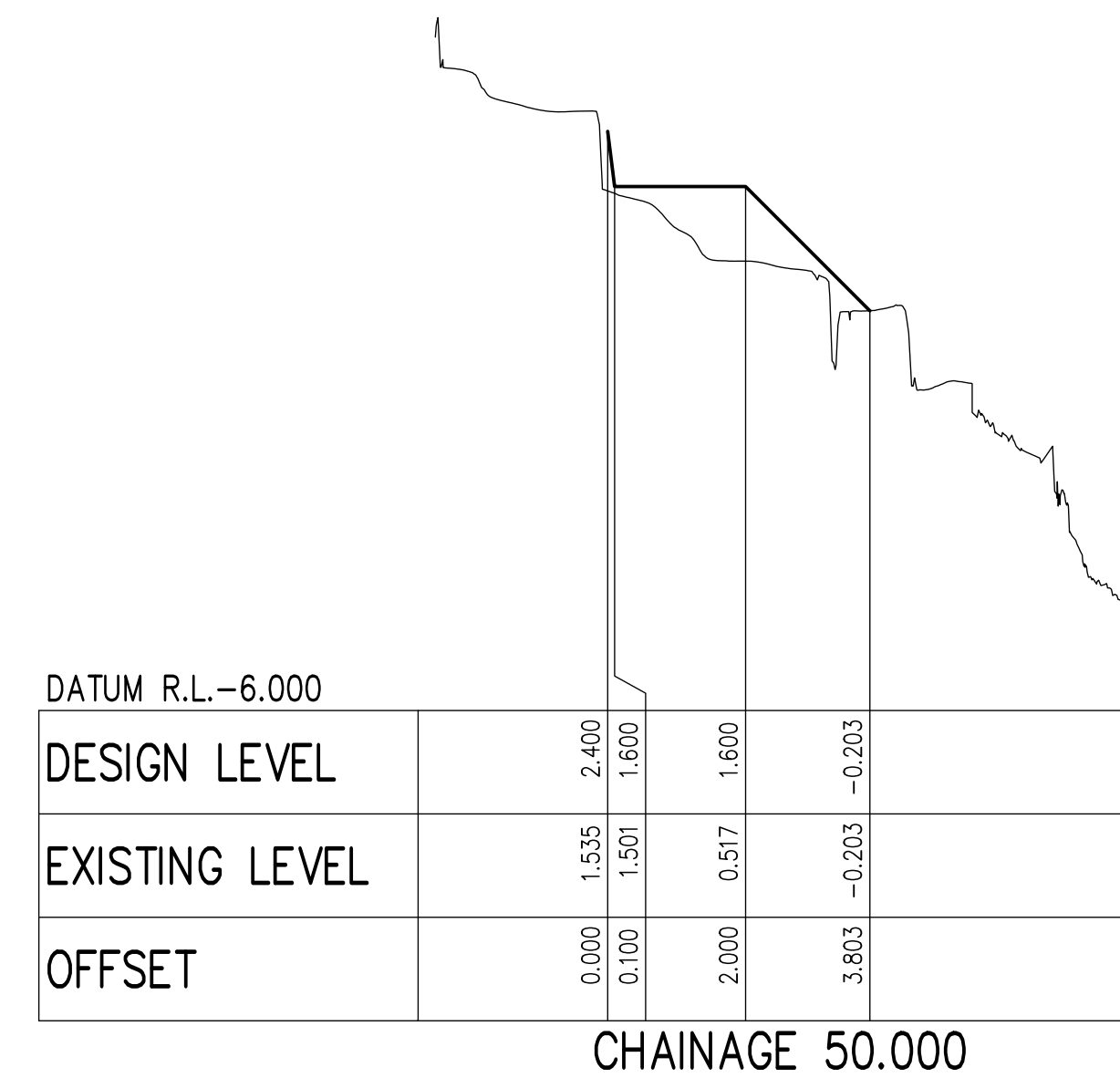
CHAINAGE 5.000



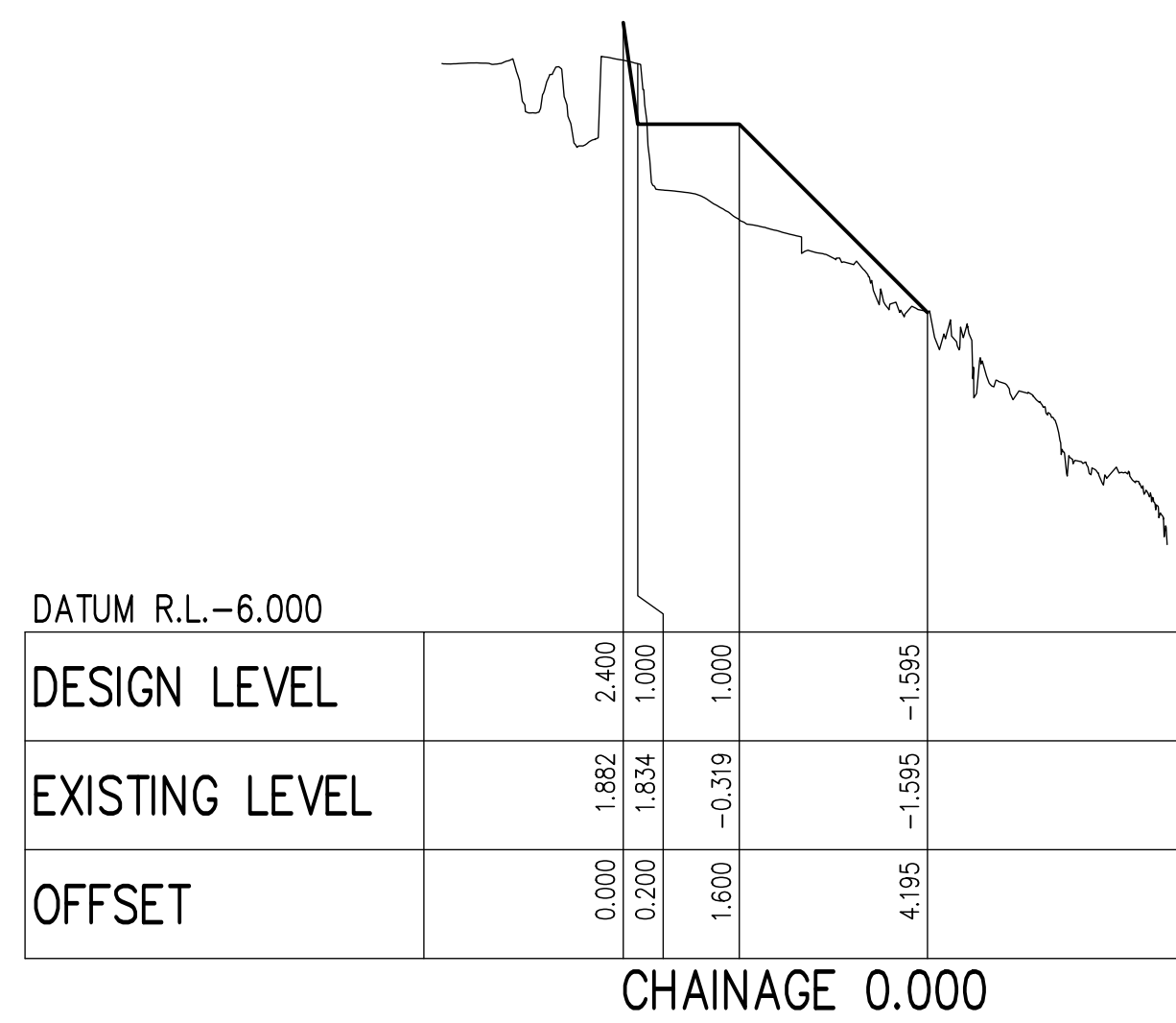
CHAINAGE 20.000



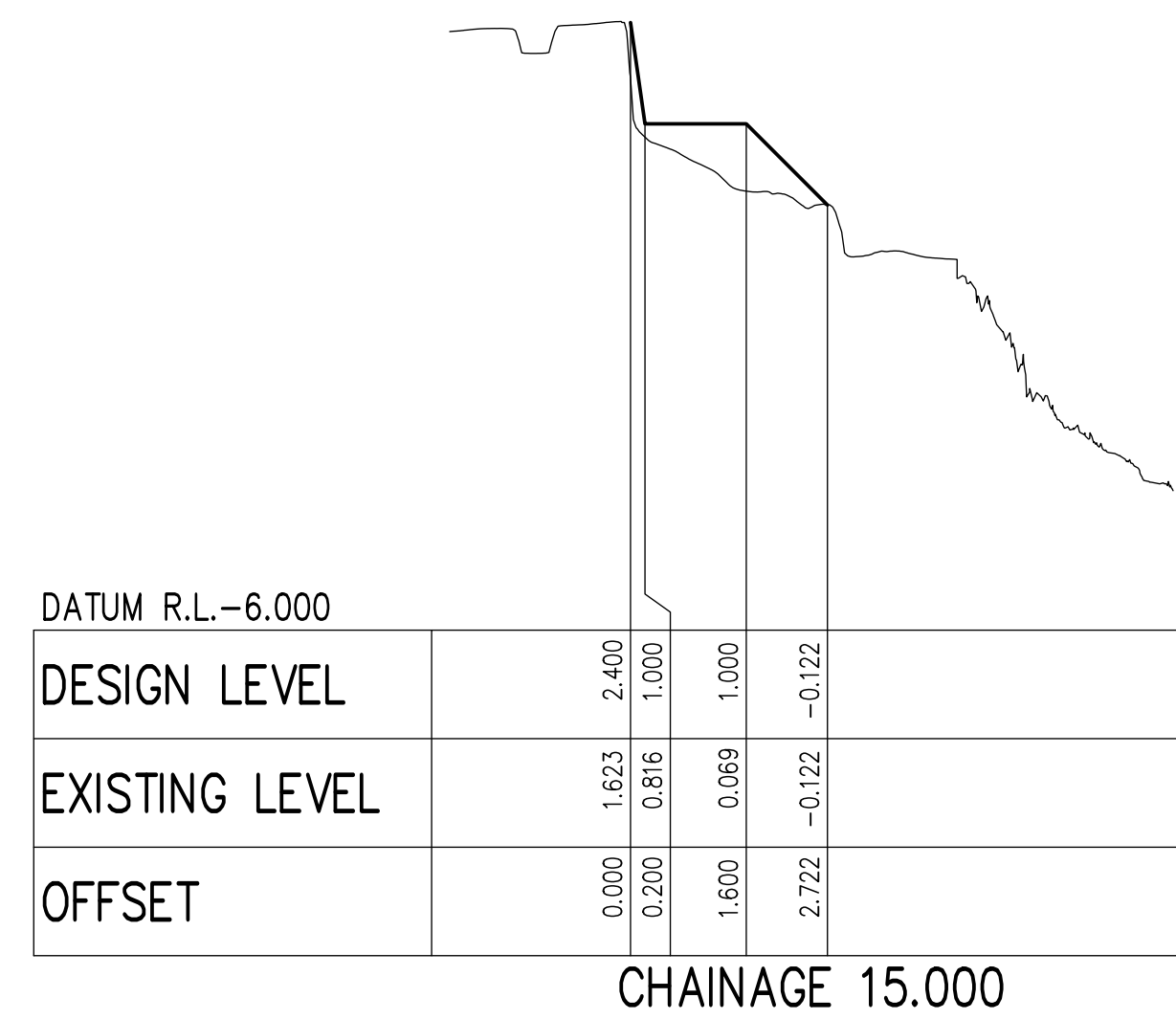
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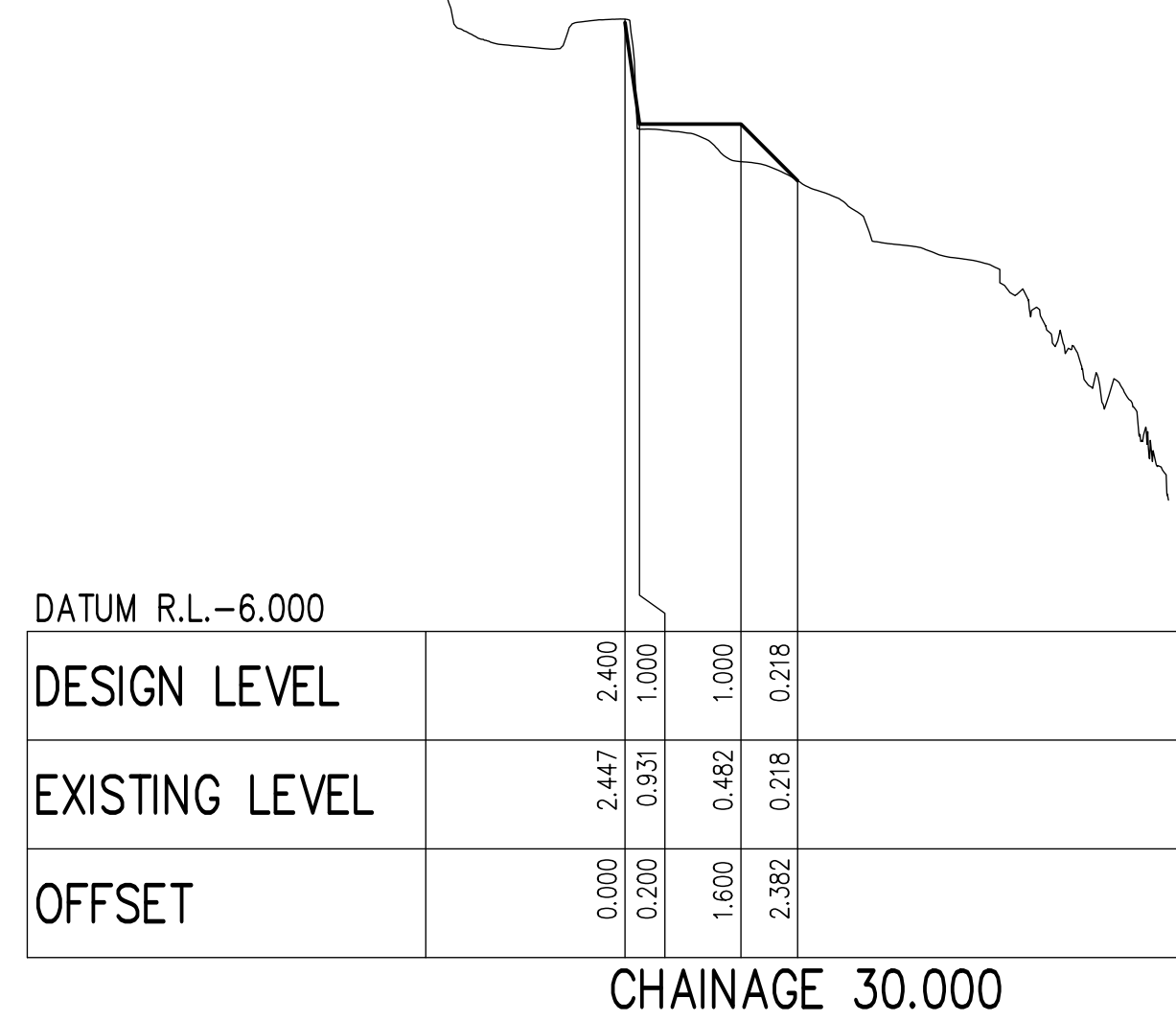
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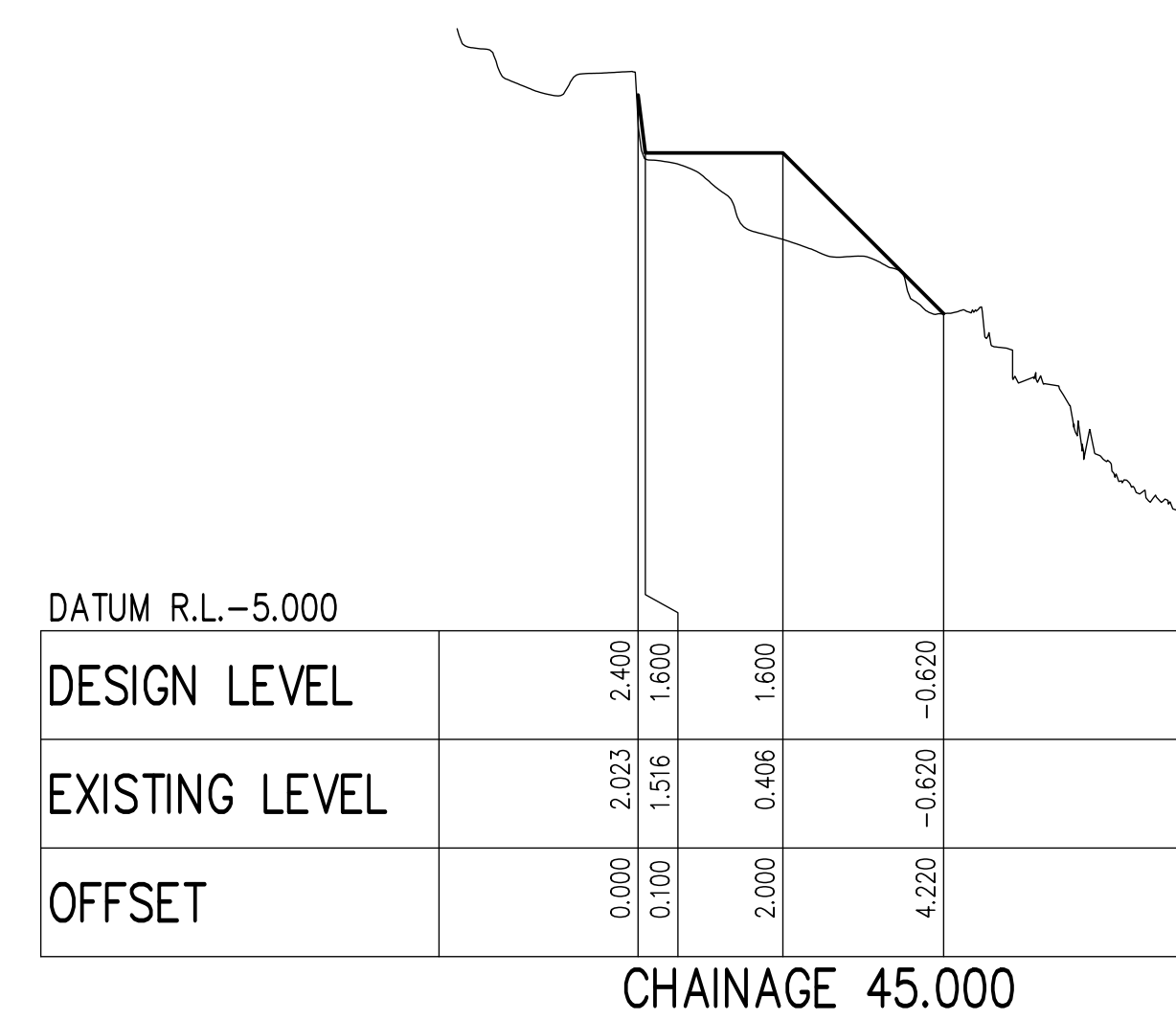
CHAINAGE 0.000



CHAINAGE 15.000



CHAINAGE 30.000



CHAINAGE 45.000

**TENDER**

P5	13.12.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P4	XX.11.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P3		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P2		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P1		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
REV	DATE	DESCRIPTION	BY	CHK	APP

REVISIONS

PROJECT  
**LAKES ENTRANCE TRAINING WALL SECTION 5, 8, 8A ROCK ARMOUR REPAIR**



BIM REF.  
23010184-WT-ZZ-XX-DR-C-0005

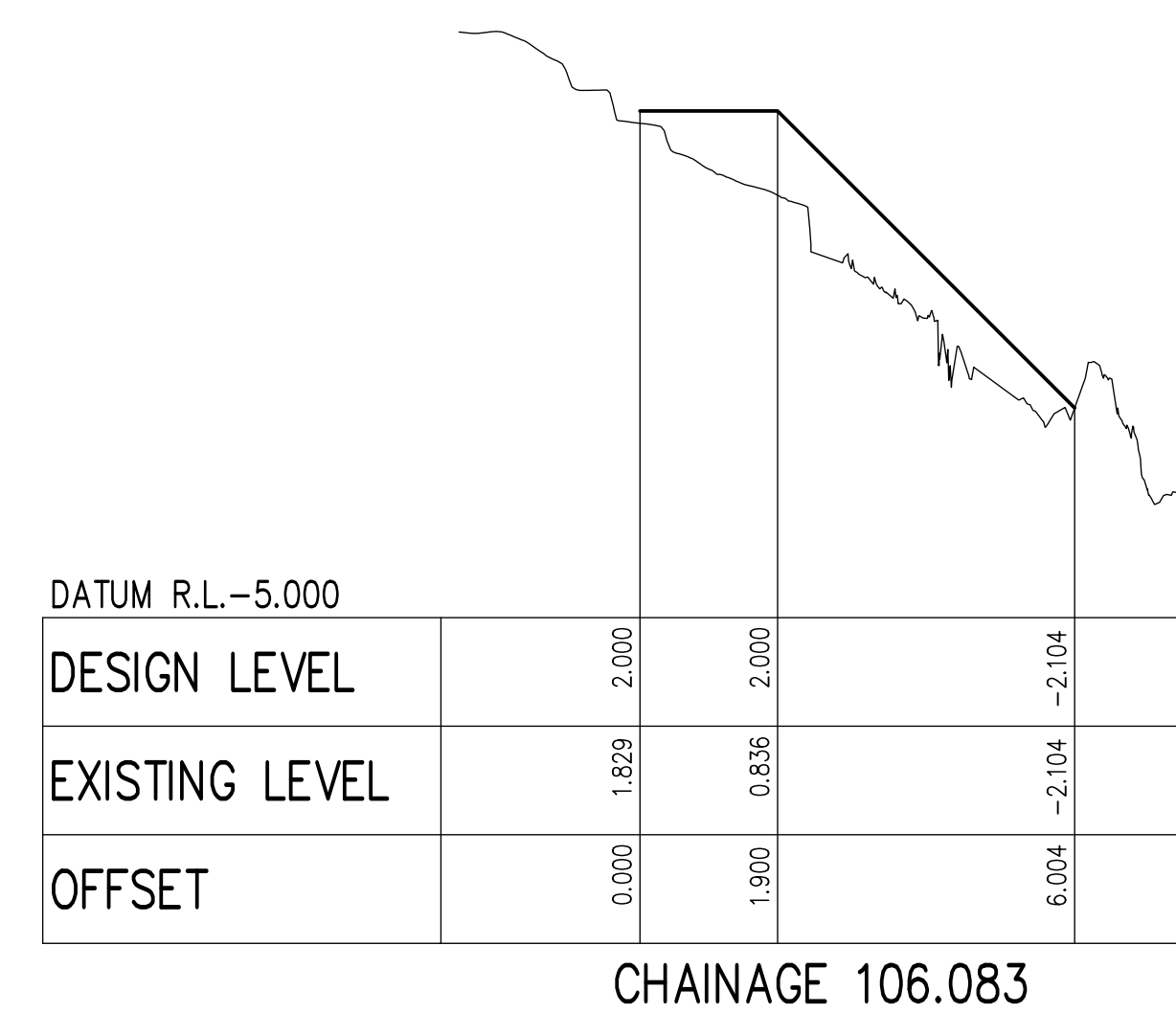
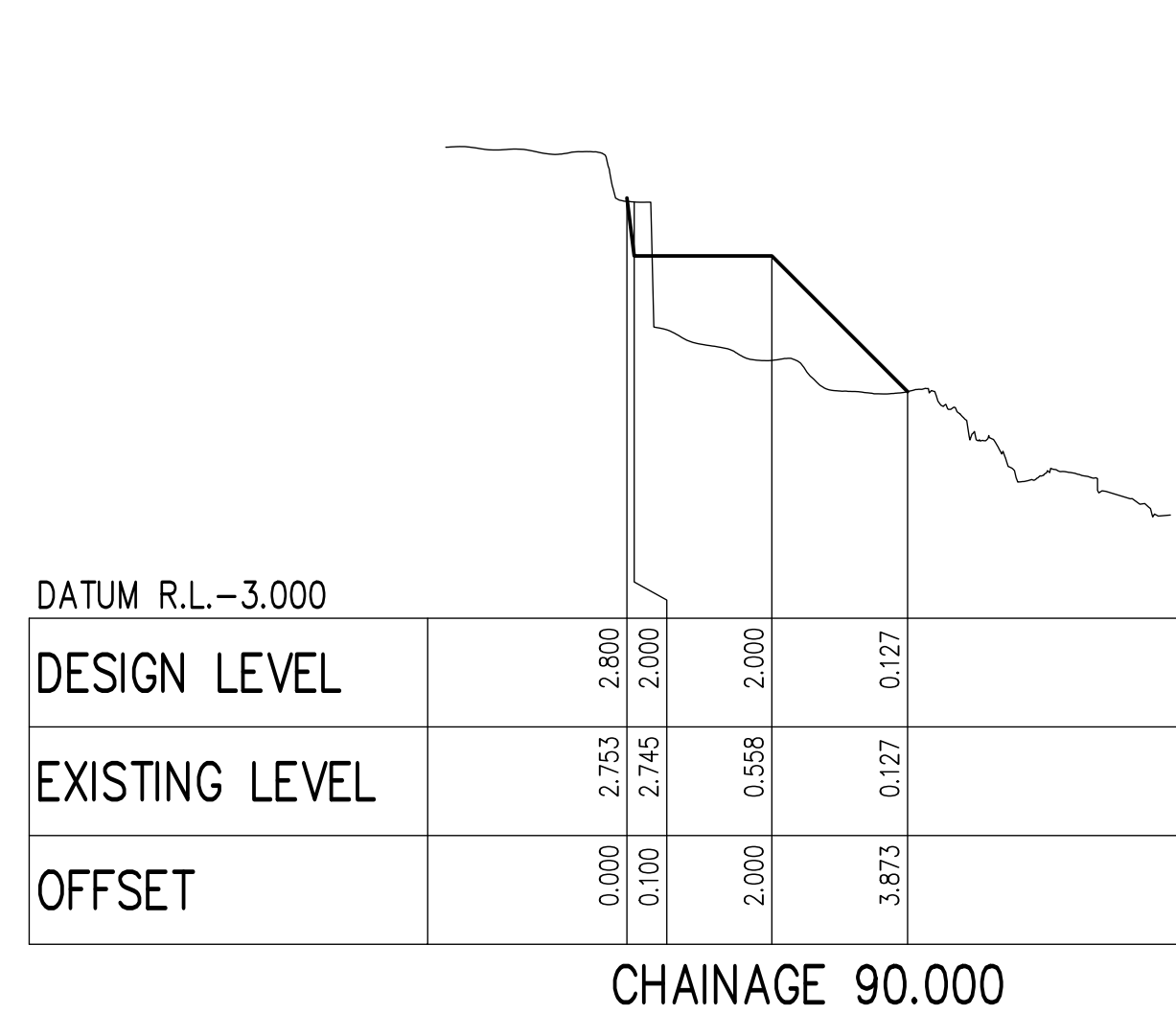
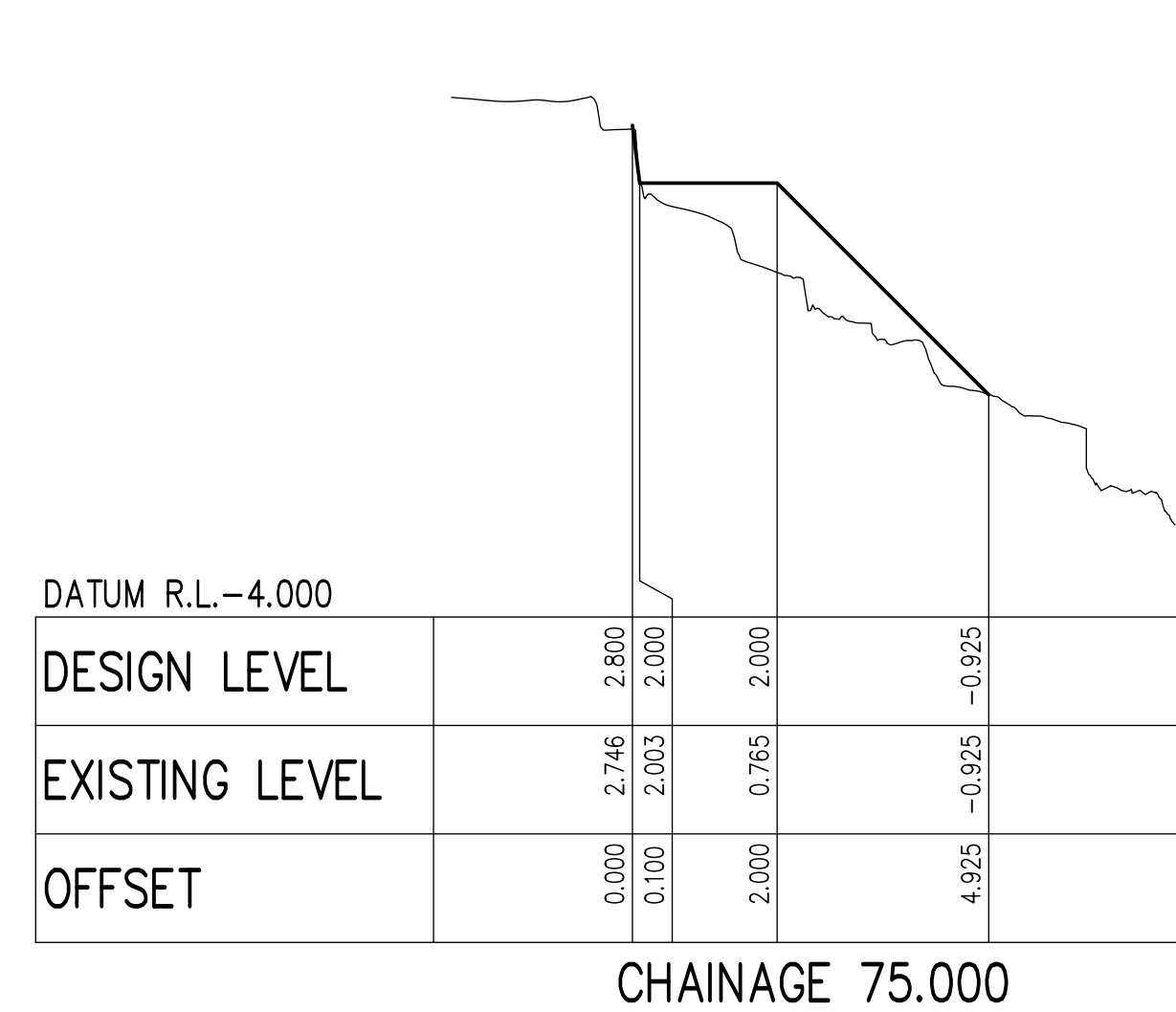
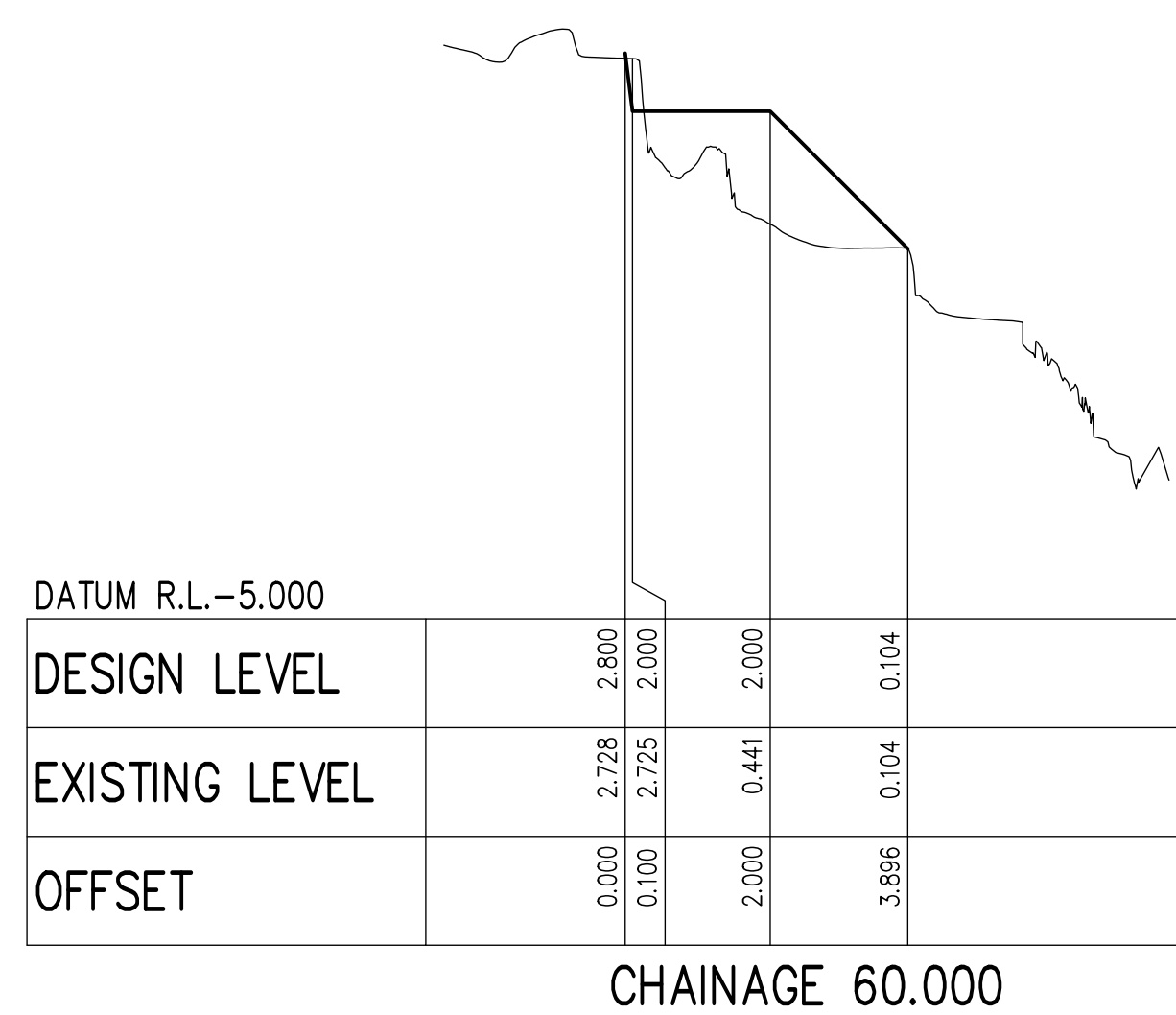
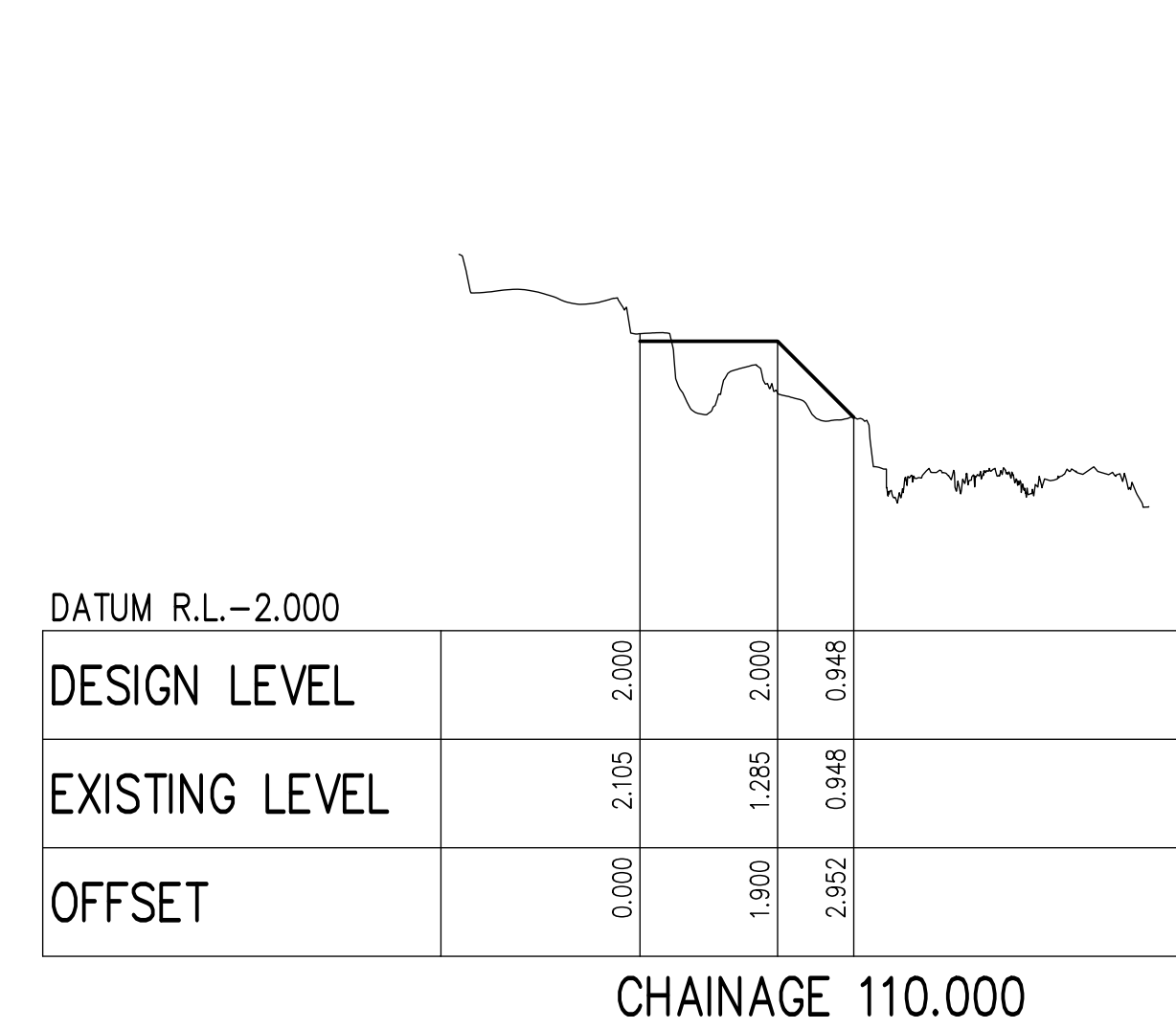
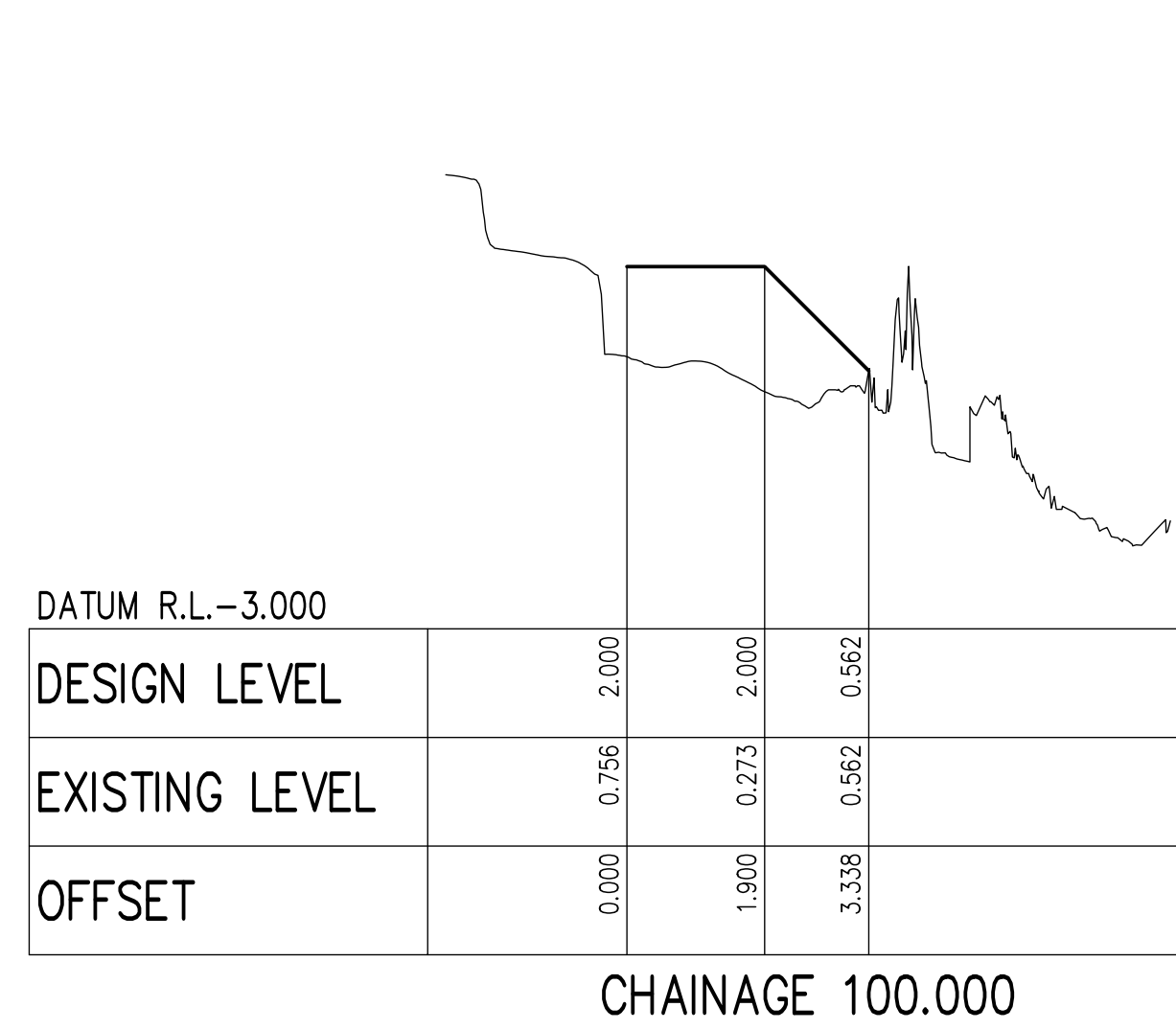
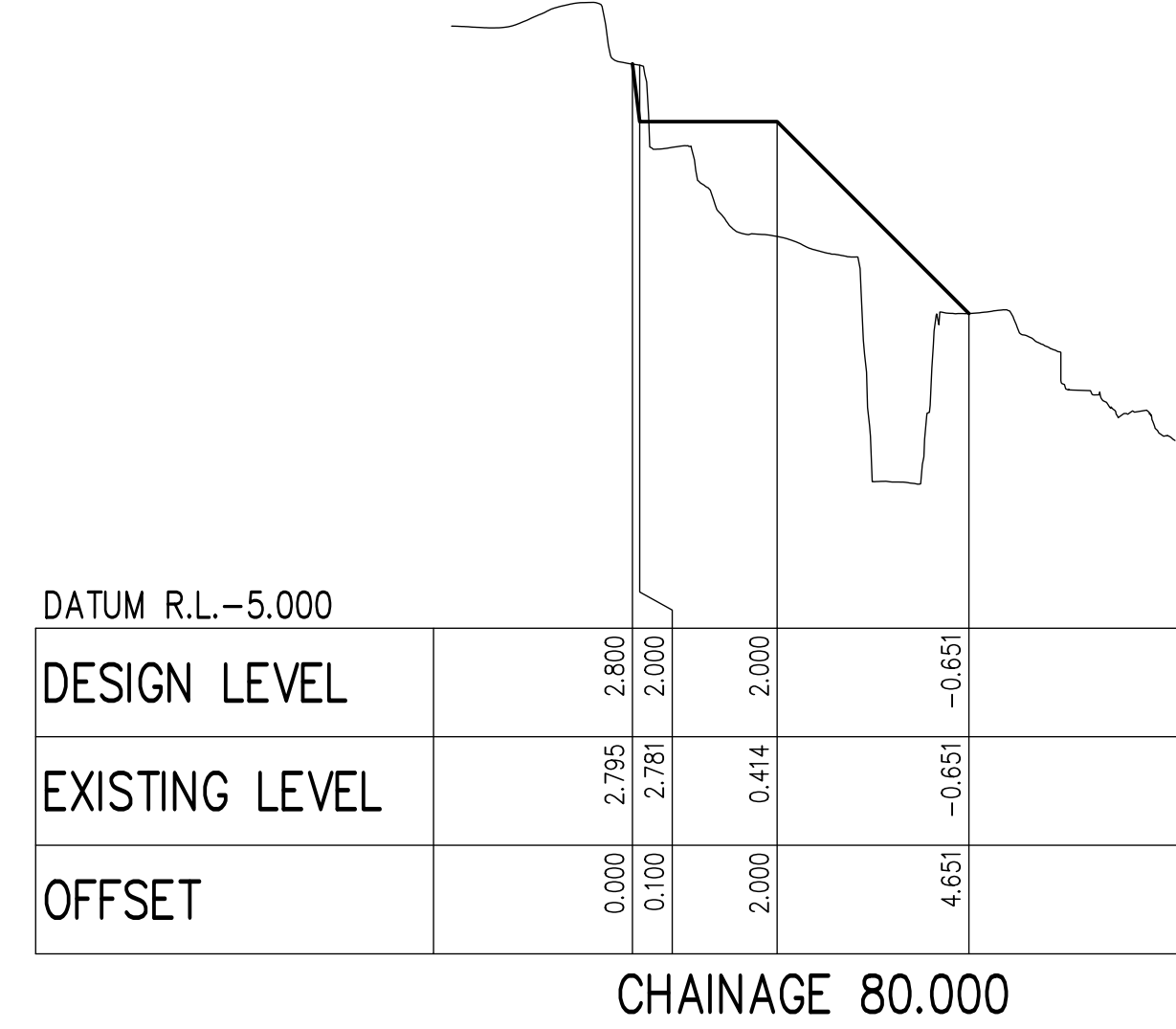
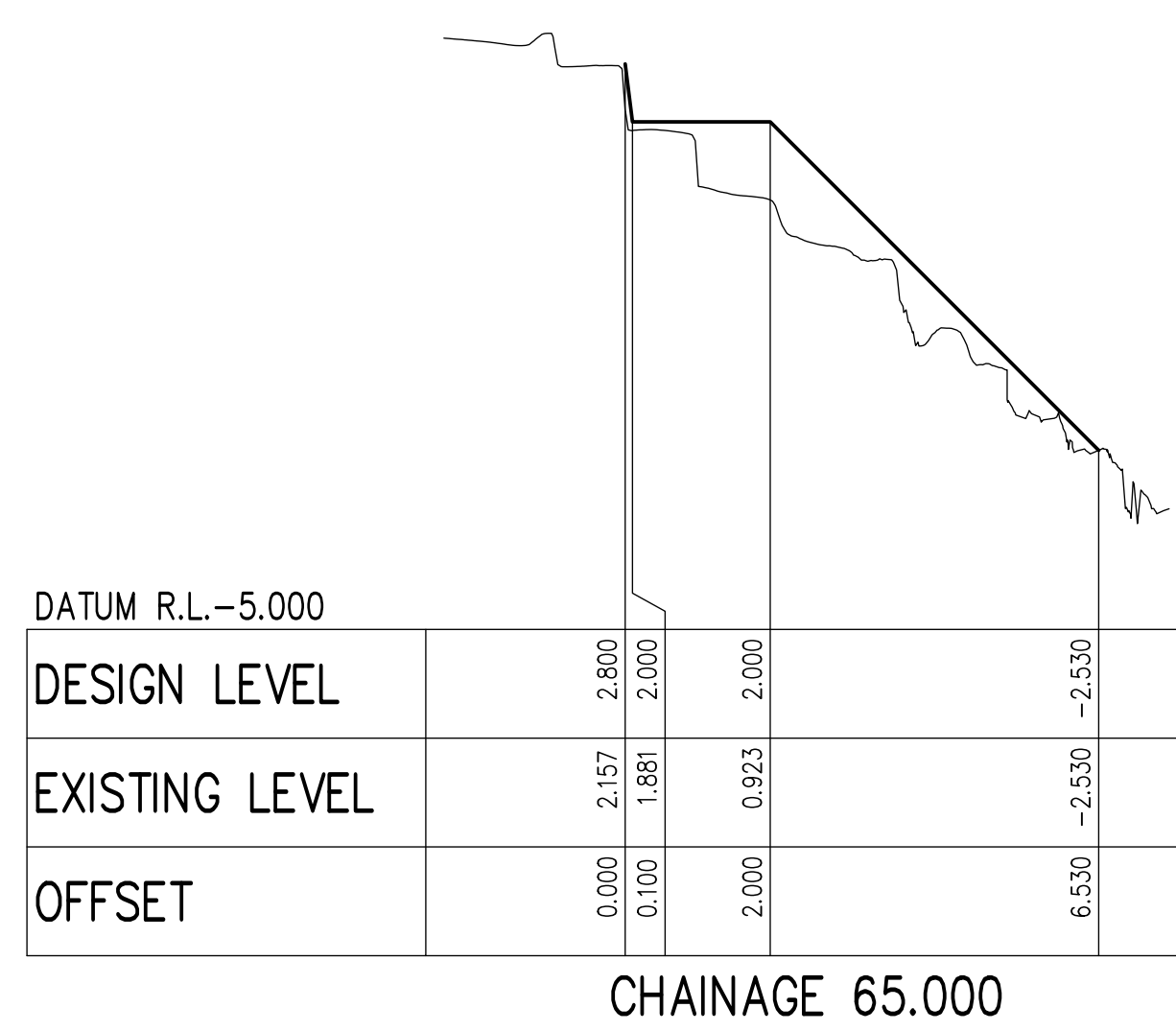
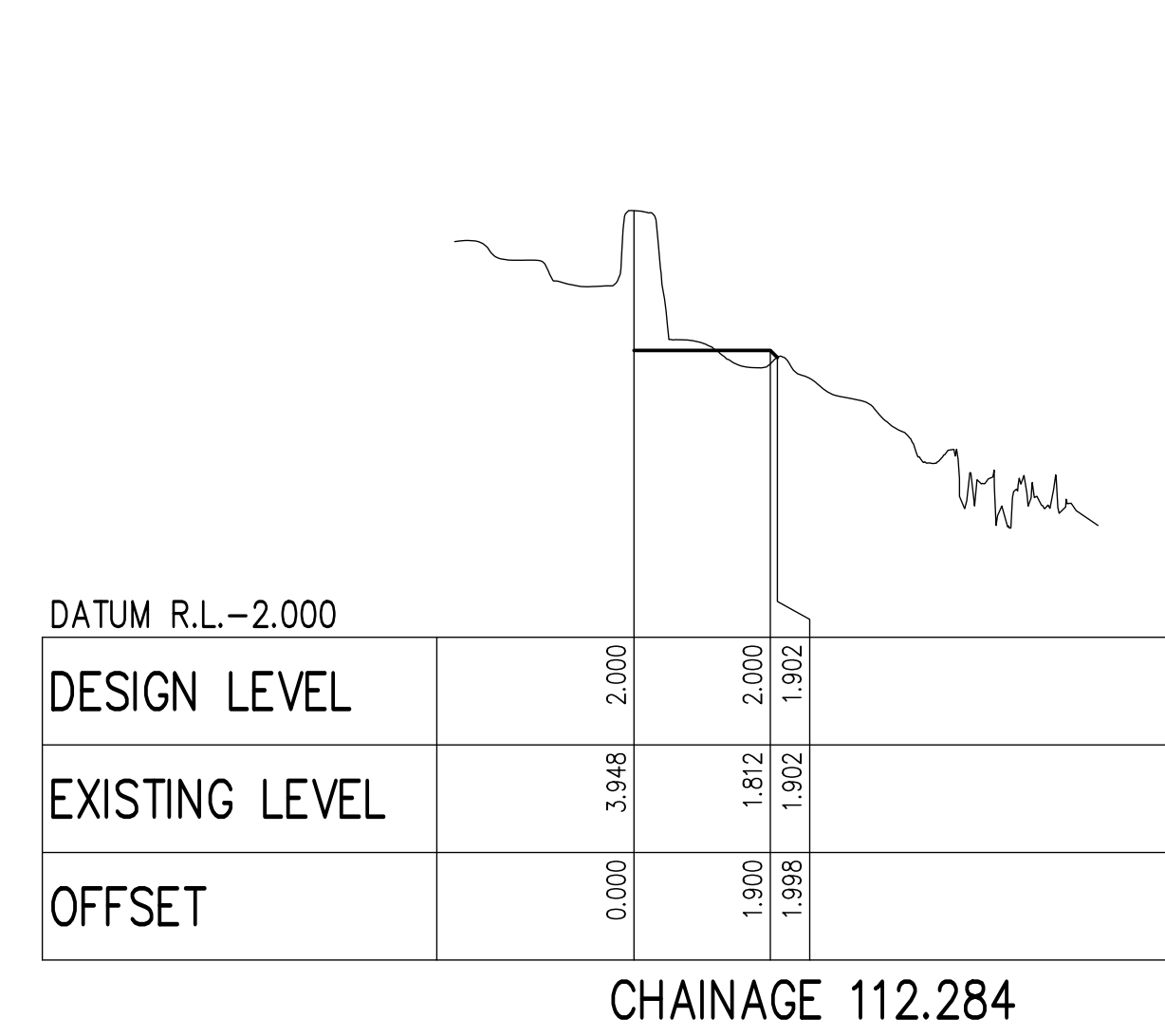
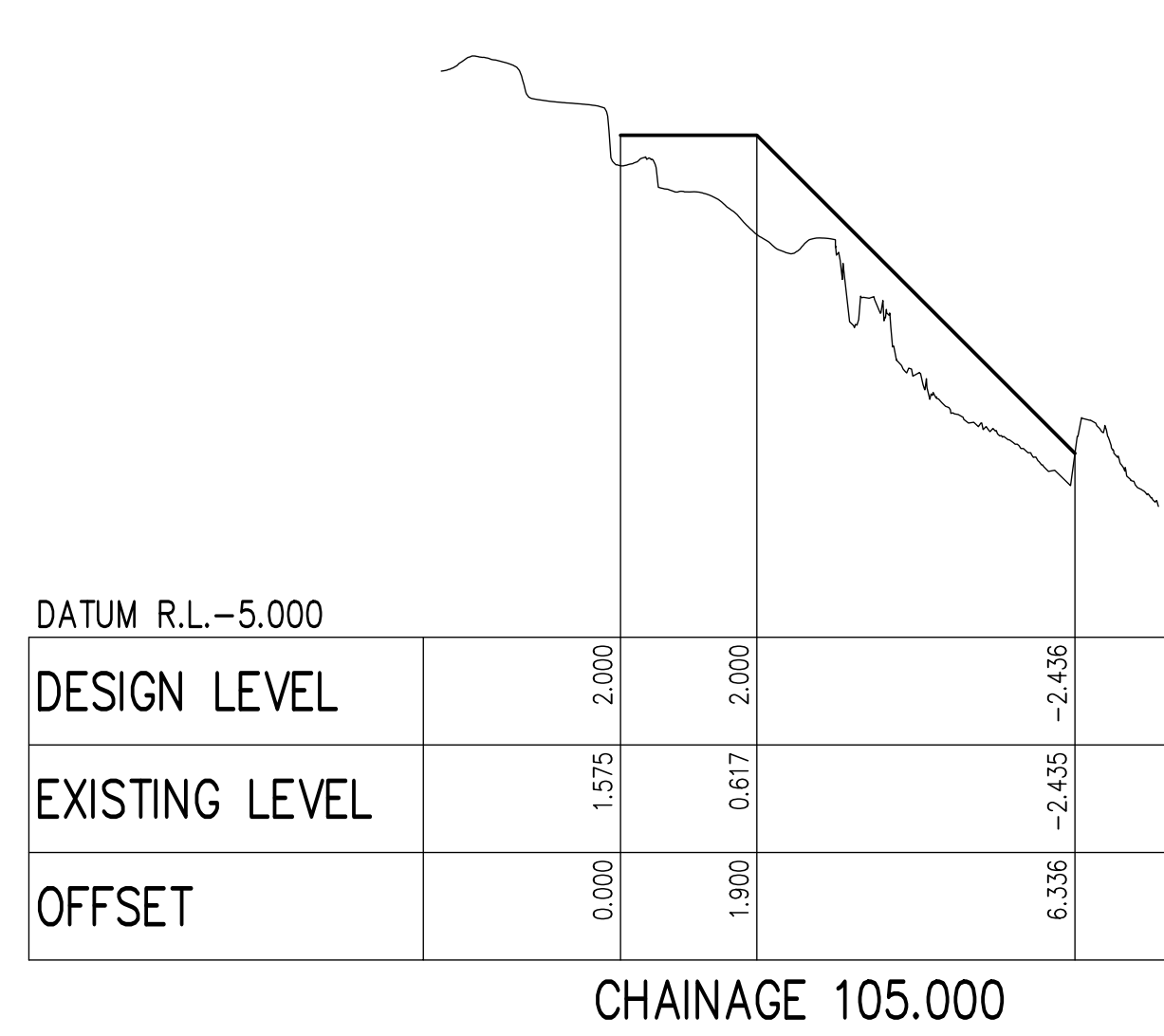
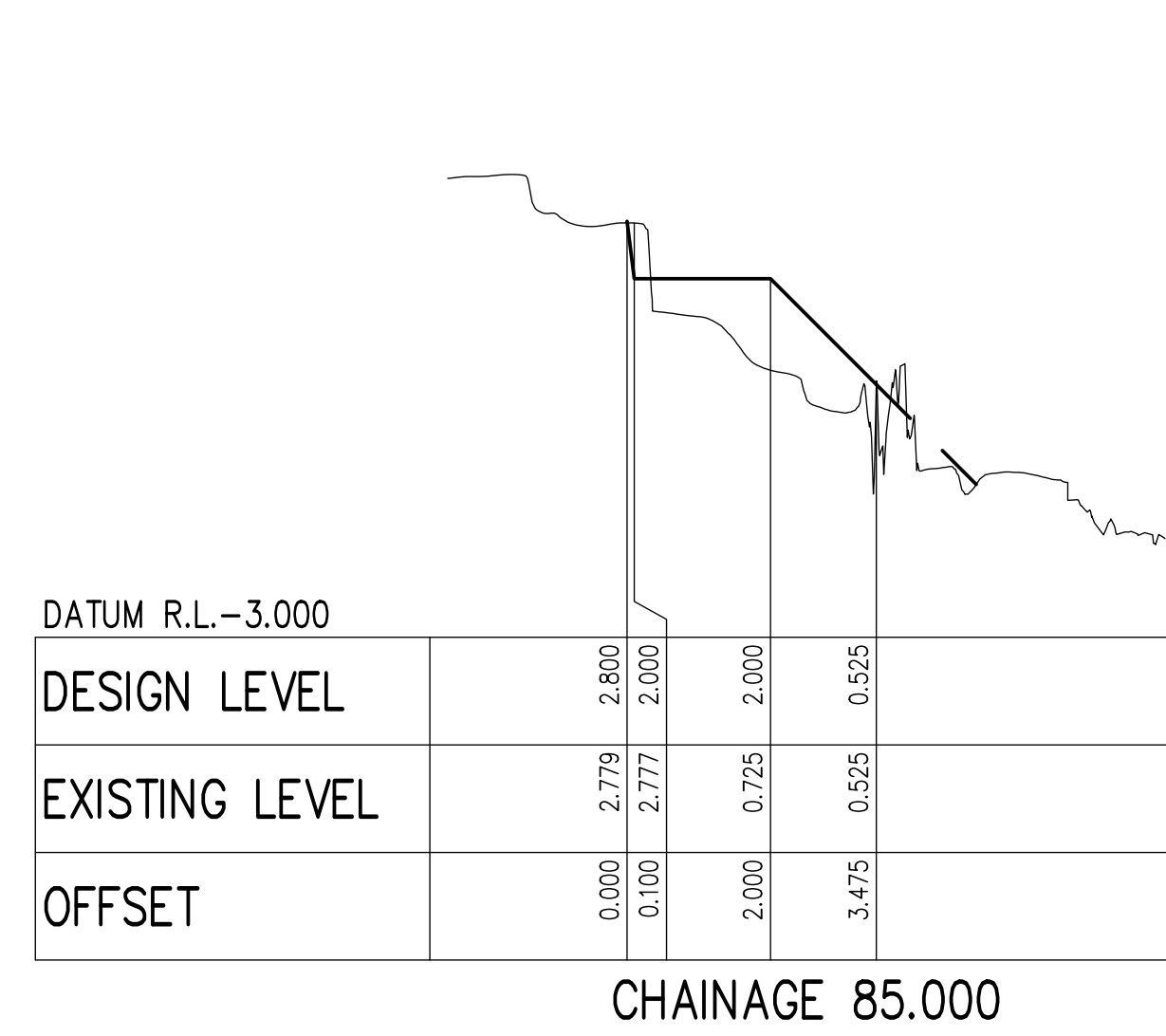
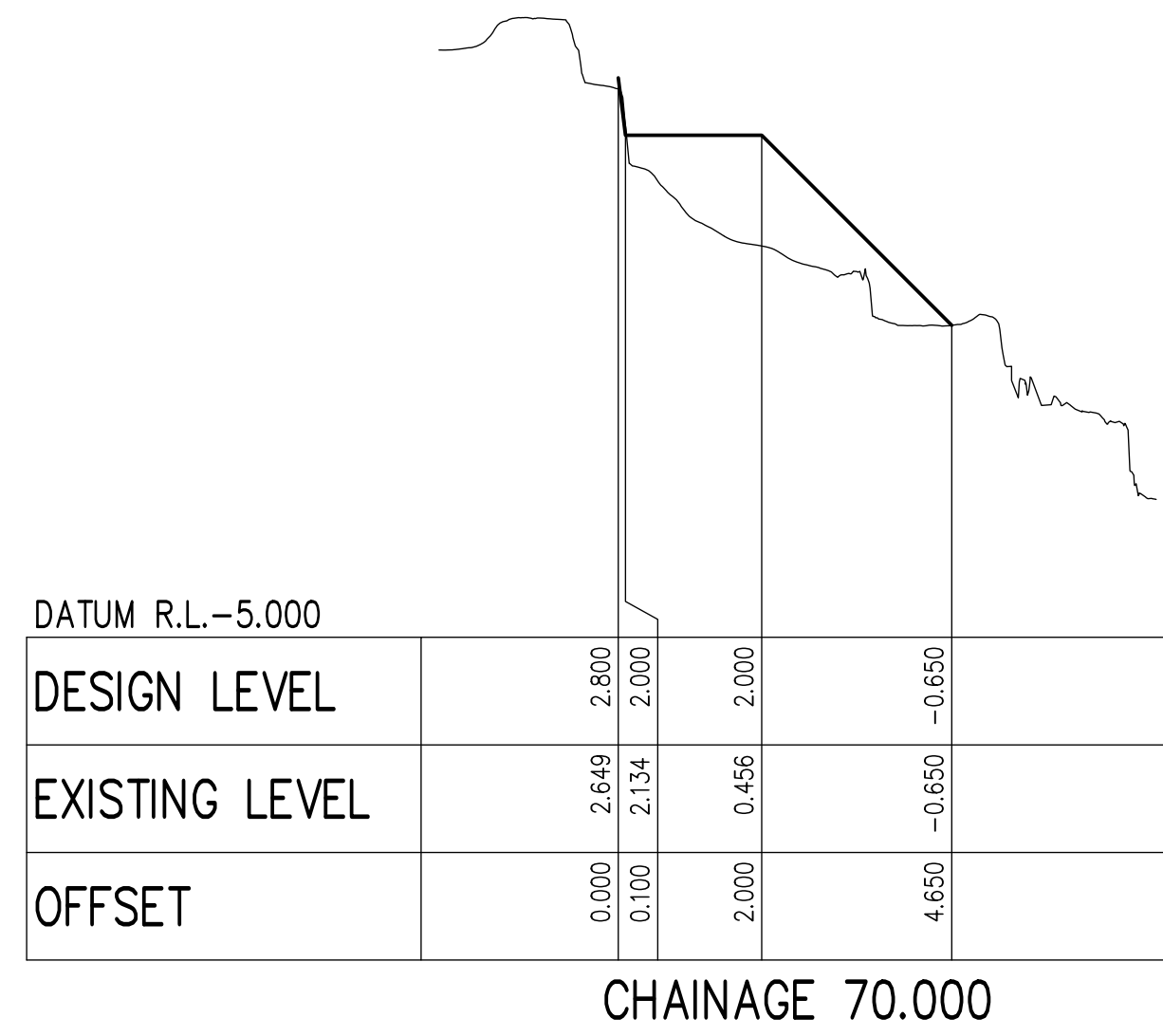
TITLE  
**DESIGN CROSS-SECTION 3 (TW SECTION 8-8A)**



DRAWN	MJB	CHECKED	GXC	APPROVED	GXC
DATE	NOVEMBER 2024	SCALE	AS SHOWN	REF.	23010184-01-0005
DRAWING No.	WT-ZZ-XX-DR-C-0005	SUITABILITY	S1	REVISION	P5



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**TENDER**

REV	DATE	DESCRIPTION	BY	CHK	APP
P5	13.12.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P4	XX.11.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P3		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P2		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P1		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC

REVISIONS

PROJECT  
**LAKES ENTRANCE TRAINING WALL SECTION 5, 8, 8A ROCK ARMOUR REPAIR**



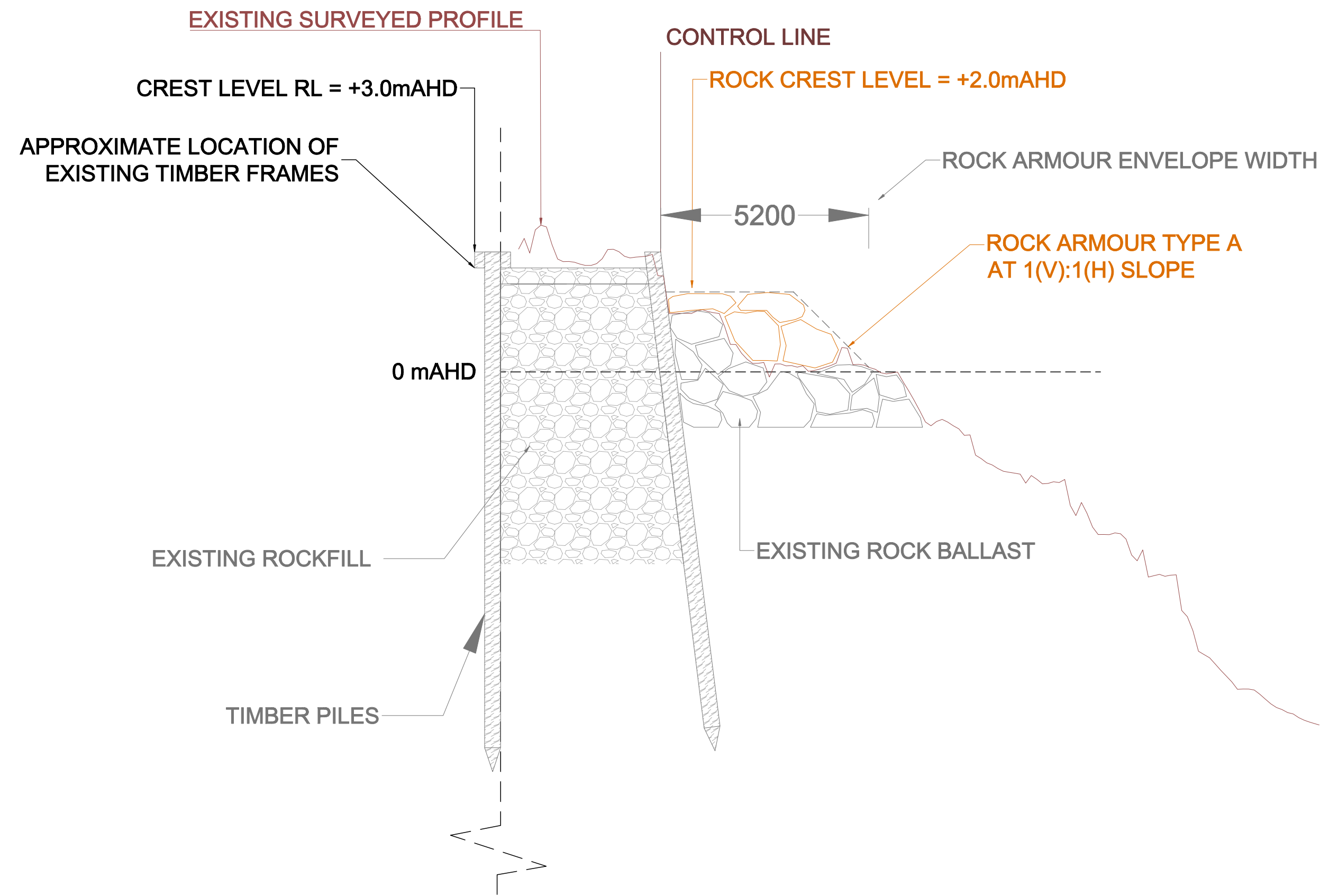
BIM REF.  
23010184-WT-ZZ-XX-DR-C-0006

TITLE  
**DESIGN CROSS-SECTION 4 (TW SECTION 8-8A)**

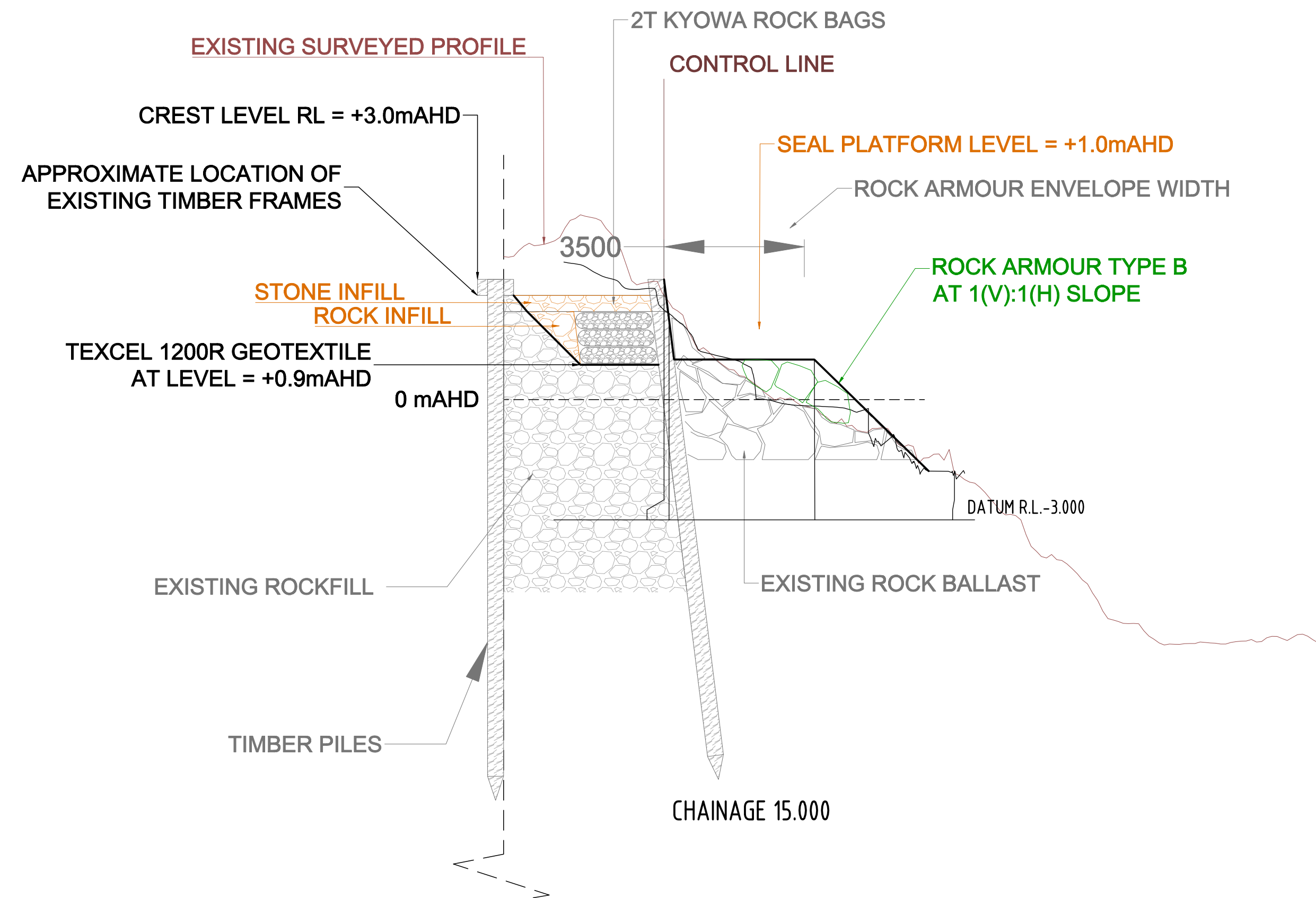


DRAWN	MJB	CHECKED	GXC	APPROVED	GXC
DATE	NOVEMBER 2024	SCALE	AT A1	AS SHOWN	REF: 23010184-01-0006
DRAWING No.	WT-ZZ-XX-DR-C-0006	SUITABILITY	S1	REVISION	P5

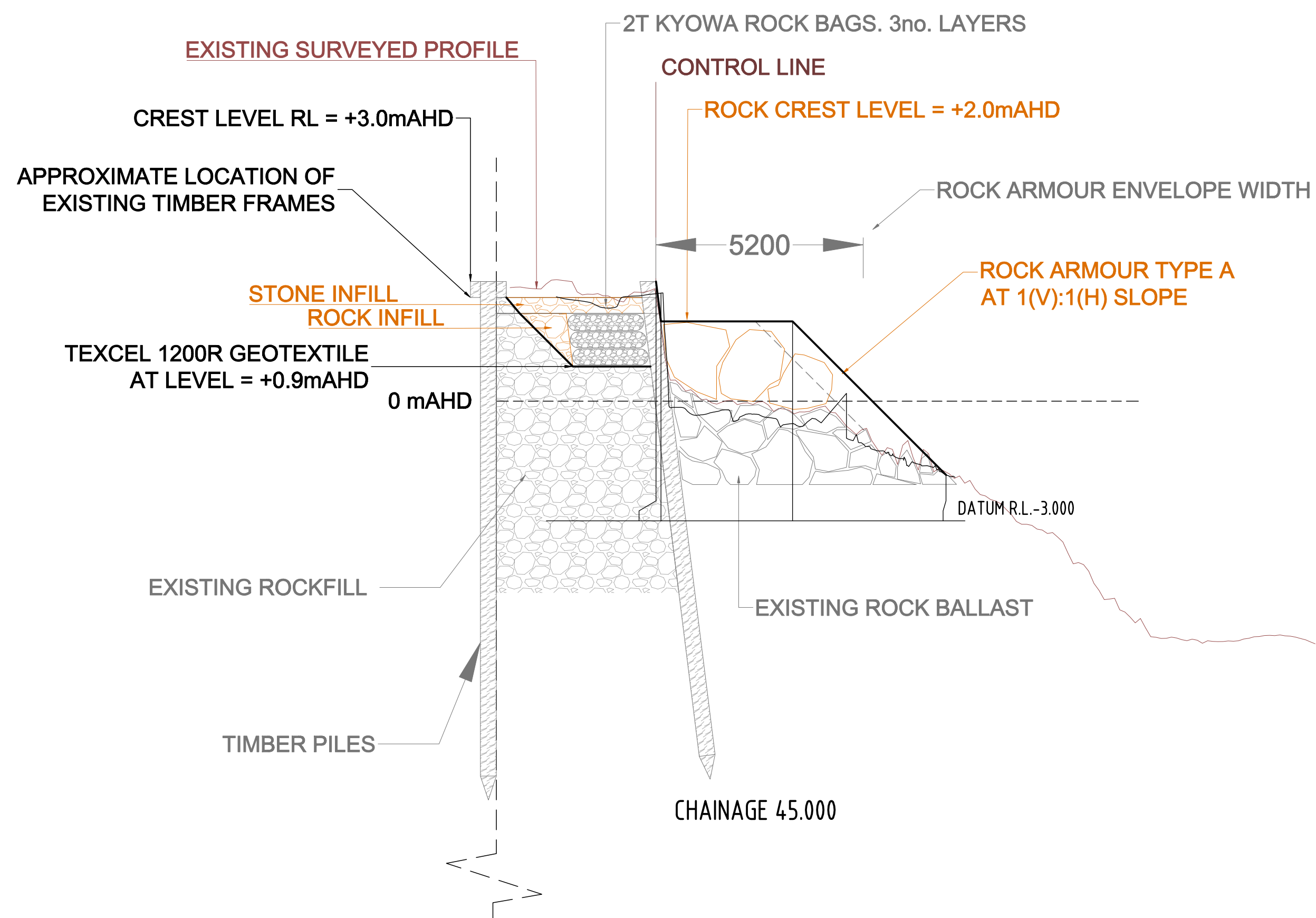
ALL LEVELS ARE RELEVANT TO AUSTRALIAN HEIGHT DATUM (AHD) UNLESS OTHERWISE STATED.



SECTION 5 DESIGN -  
TYPICAL SECTION A-A  
SCALE 1:200



SECTION 5 DESIGN -  
TYPICAL SECTION C-C  
SCALE 1:200



SECTION 5 DESIGN -  
TYPICAL SECTION B-B  
SCALE 1:200

ALL LEVELS ARE RELEVANT TO AUSTRALIAN HEIGHT DATUM (AHD) UNLESS OTHERWISE STATED.

NOTES

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**TENDER**

REV	DATE	DESCRIPTION	BY	CHK	APP
P5	13.12.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P4	XX.11.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P3		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P2		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P1		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC

REVISIONS

PROJECT  
**LAKES ENTRANCE TRAINING WALL SECTION 5, 8, 8A ROCK ARMOUR REPAIR**



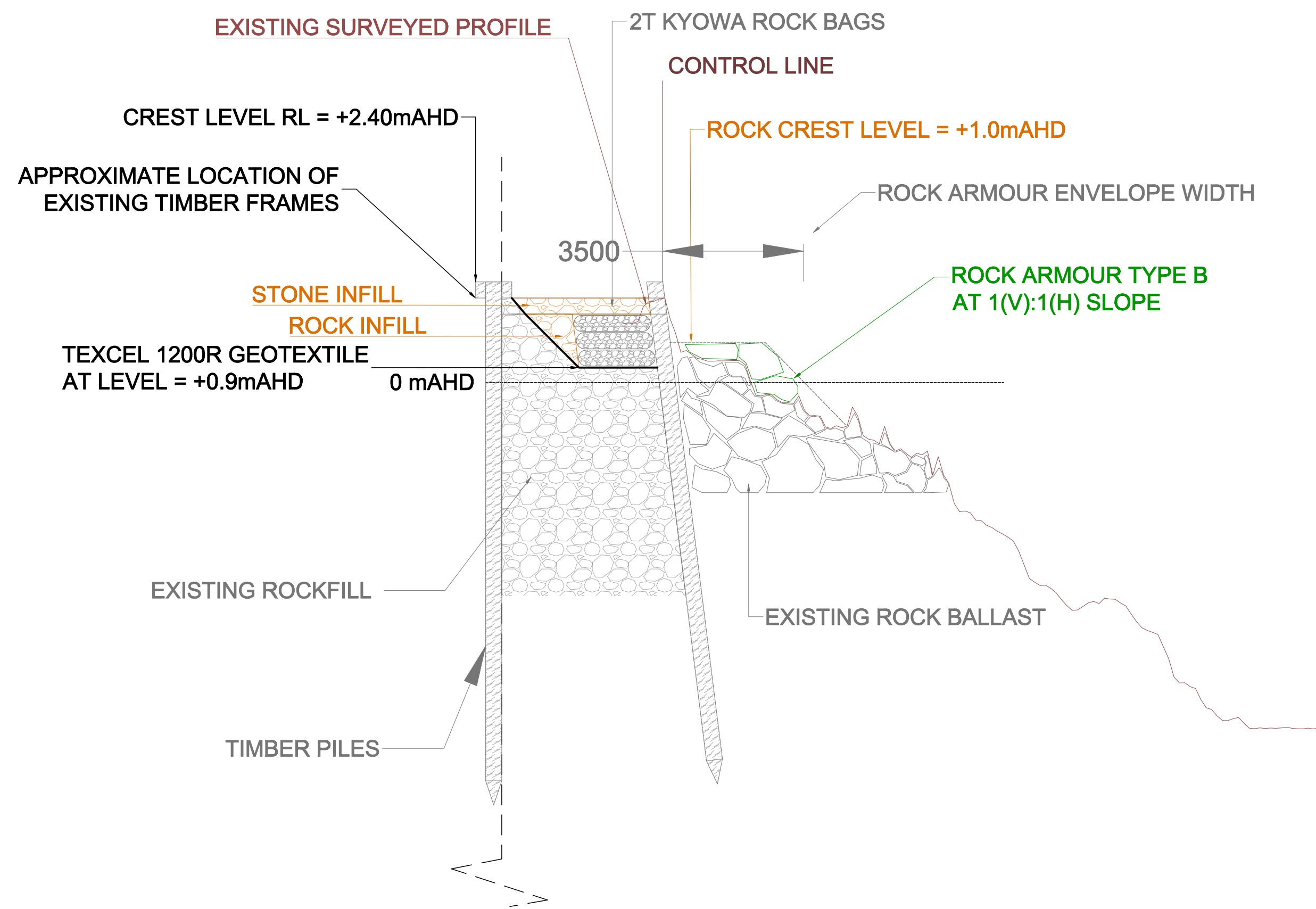
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23010184-WT-ZZ-XX-DR-C-0007

TITLE  
**TYPICAL CROSS-SECTION CONCEPT 1 (TW SECTION 5)**

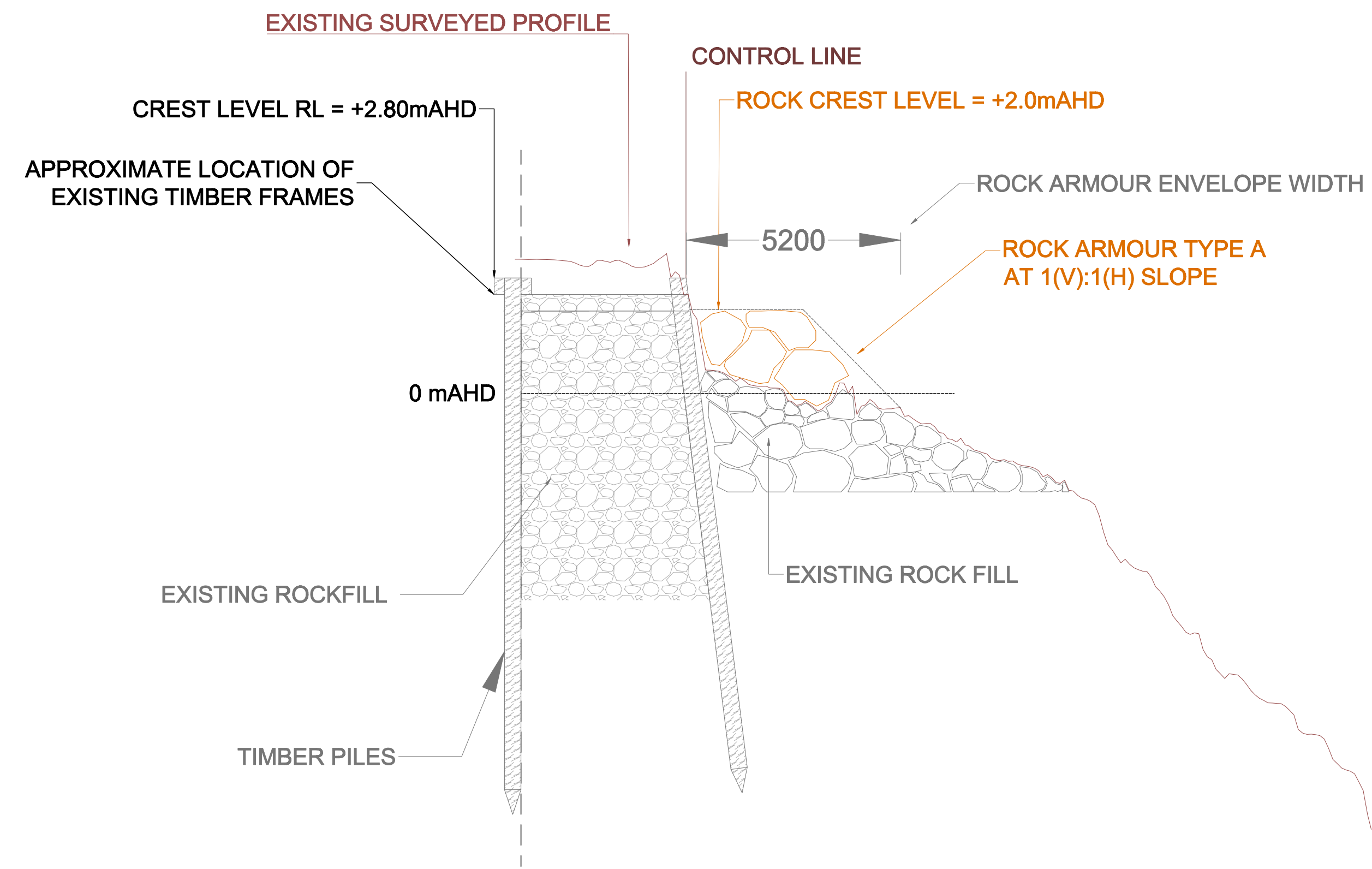


DRAWN	MJB	CHECKED	GXC	APPROVED	GXC
DATE	NOVEMBER 2024	SCALE	AT A1 AS SHOWN	REF.	23010184-01-0007
DRAWING No.	WT-ZZ-XX-DR-C-0007	SUITABILITY	S1	REVISION	P5

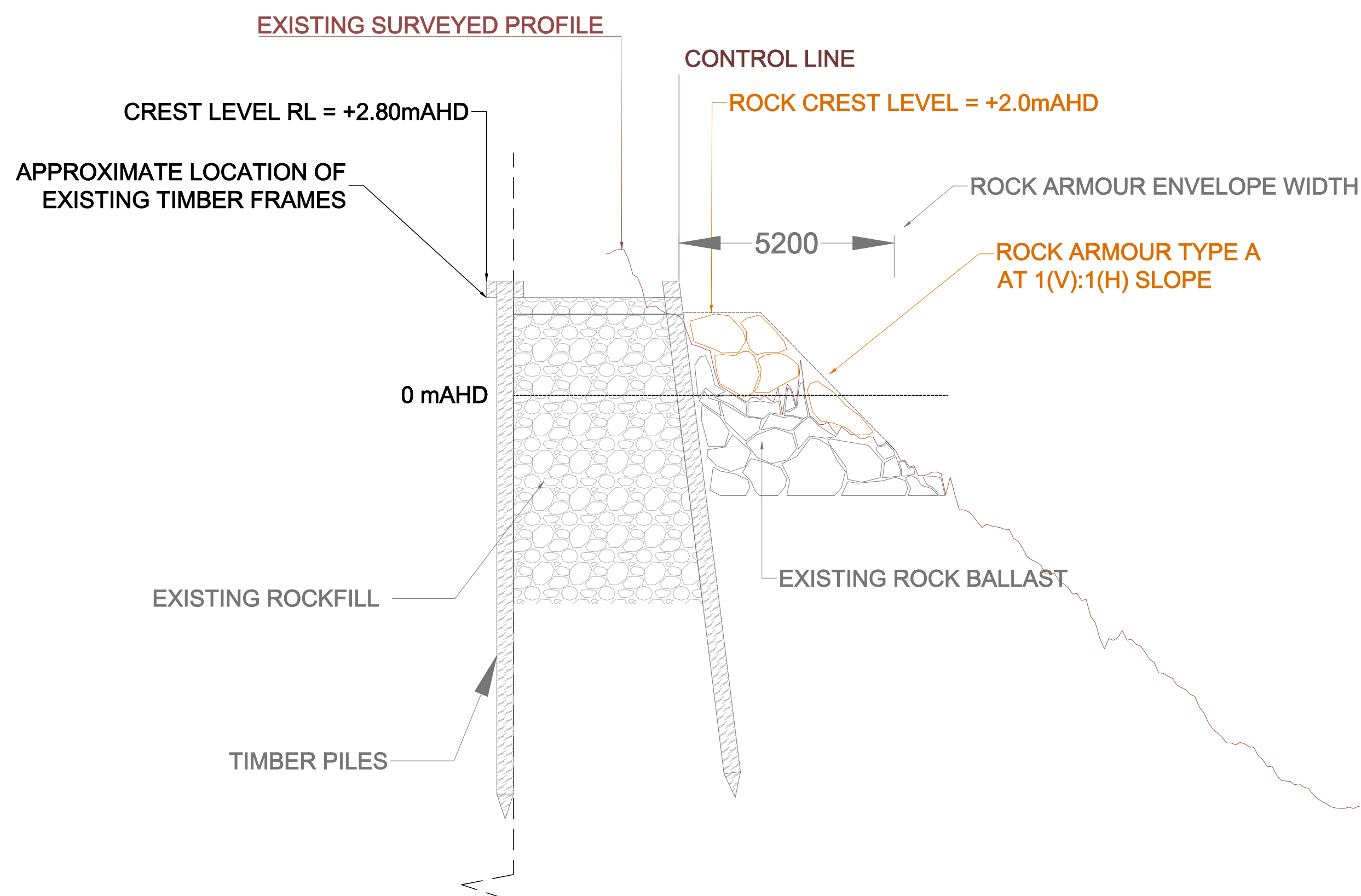




SECTION 8-8A DESIGN -  
TYPICAL SECTION D-D  
SCALE 1:200



SECTION 8-8A DESIGN -  
TYPICAL SECTION F-F  
SCALE 1:200



SECTION 8-8A DESIGN -  
TYPICAL SECTION E-E  
SCALE 1:200

ALL LEVELS ARE RELEVANT TO AUSTRALIAN HEIGHT DATUM (AHD) UNLESS OTHERWISE STATED.

NOTES

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**TENDER**

REV	DATE	DESCRIPTION	BY	CHK	APP
P5	13.12.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P4	XX.11.24	S1 - ISSUED FOR TENDER	MJB	TD	GXC
P3		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P2		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC
P1		S1 - ISSUED FOR REVIEW	BAC	GXC	GXC

REVISIONS

PROJECT  
LAKES ENTRANCE TRAINING WALL  
SECTION 5, 8, 8A ROCK ARMOUR  
REPAIR



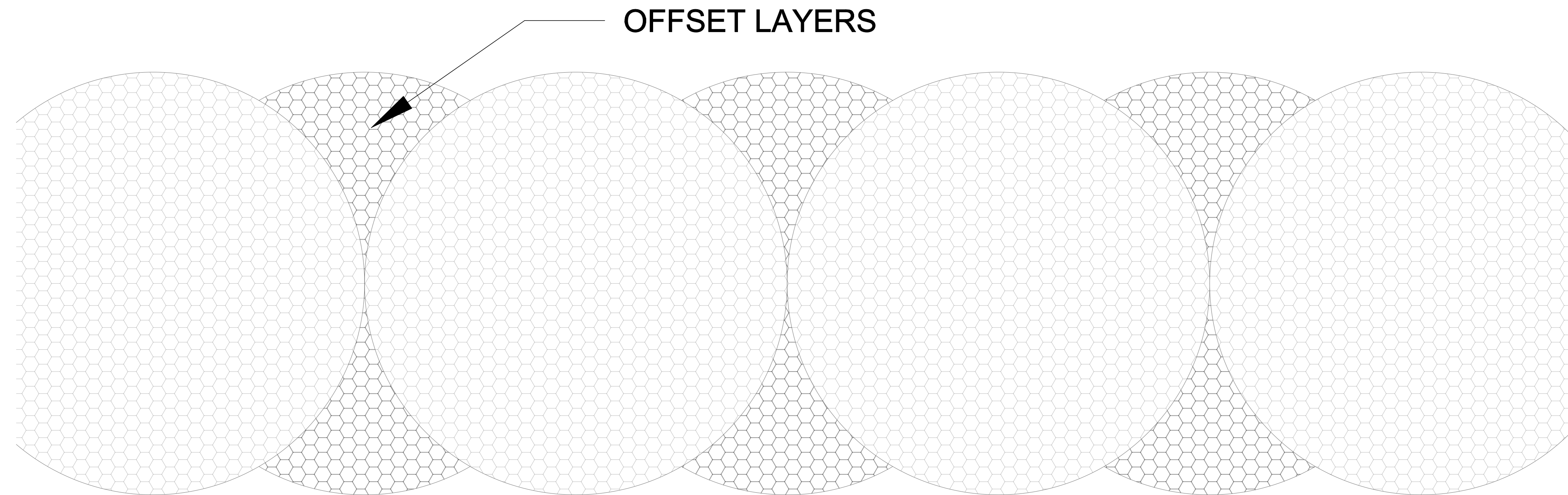
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23010184-WT-ZZ-XX-DR-C-0008

TITLE  
TYPICAL  
CROSS-SECTION CONCEPT 2  
(TW SECTION 8-8A)

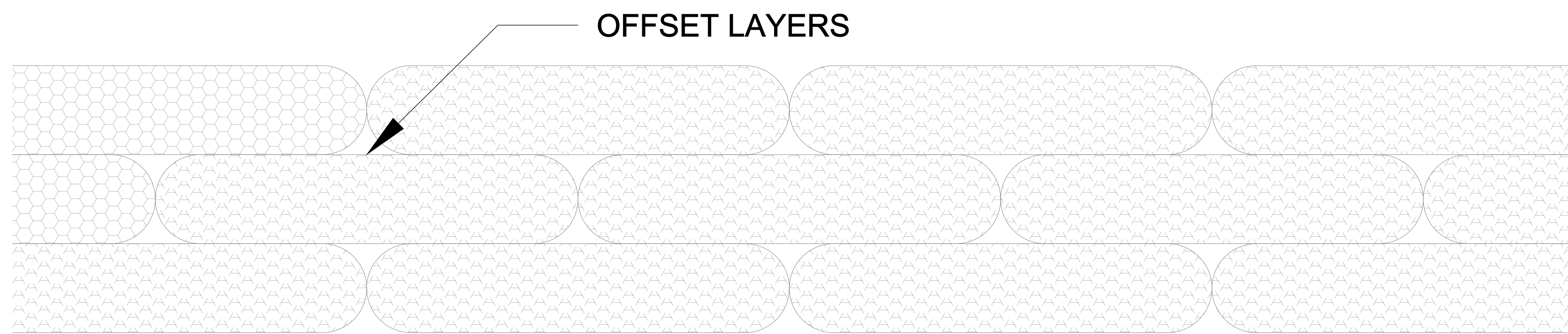


DRAWN	MJB	CHECKED	GXC	APPROVED	GXC
DATE	NOVEMBER 2024	SCALE	AT A1	AS SHOWN	REF. 23010184-01-0008
DRAWING No.	WT-ZZ-XX-DR-C-0008	SUITABILITY	S1	REVISION	P5





**ROCKBAG INSTALLATION PLAN VIEW**  
SCALE 1:200



**TEXCEL 1200R GEOTEXTILE**

**ROCKBAG INSTALLATION ELEVATION**  
SCALE 1:200

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**TENDER**

P1	13.12.24	TENDER	TJD	GXC	TJD
REV	DATE	DESCRIPTION	BY	CHK	APP

**REVISIONS**

**PROJECT**  
LAKES ENTRANCE TRAINING WALL SECTION 5, 8, 8A ROCK ARMOUR REPAIR



**BIM REF.**  
23010184-WT-ZZ-XX-DR-C-0009

**TITLE**  
DETAILS



DRAWN	TJD	CHECKED	GXC	APPROVED	GXC
DATE	NOVEMBER 2024	SCALE	AS SHOWN AT A1	REF.	23010184-01-0009

<b>DRAWING No.</b>	<b>SUITABILITY</b>	<b>REVISION</b>
WT-ZZ-XX-DR-C-0009	S1	P1