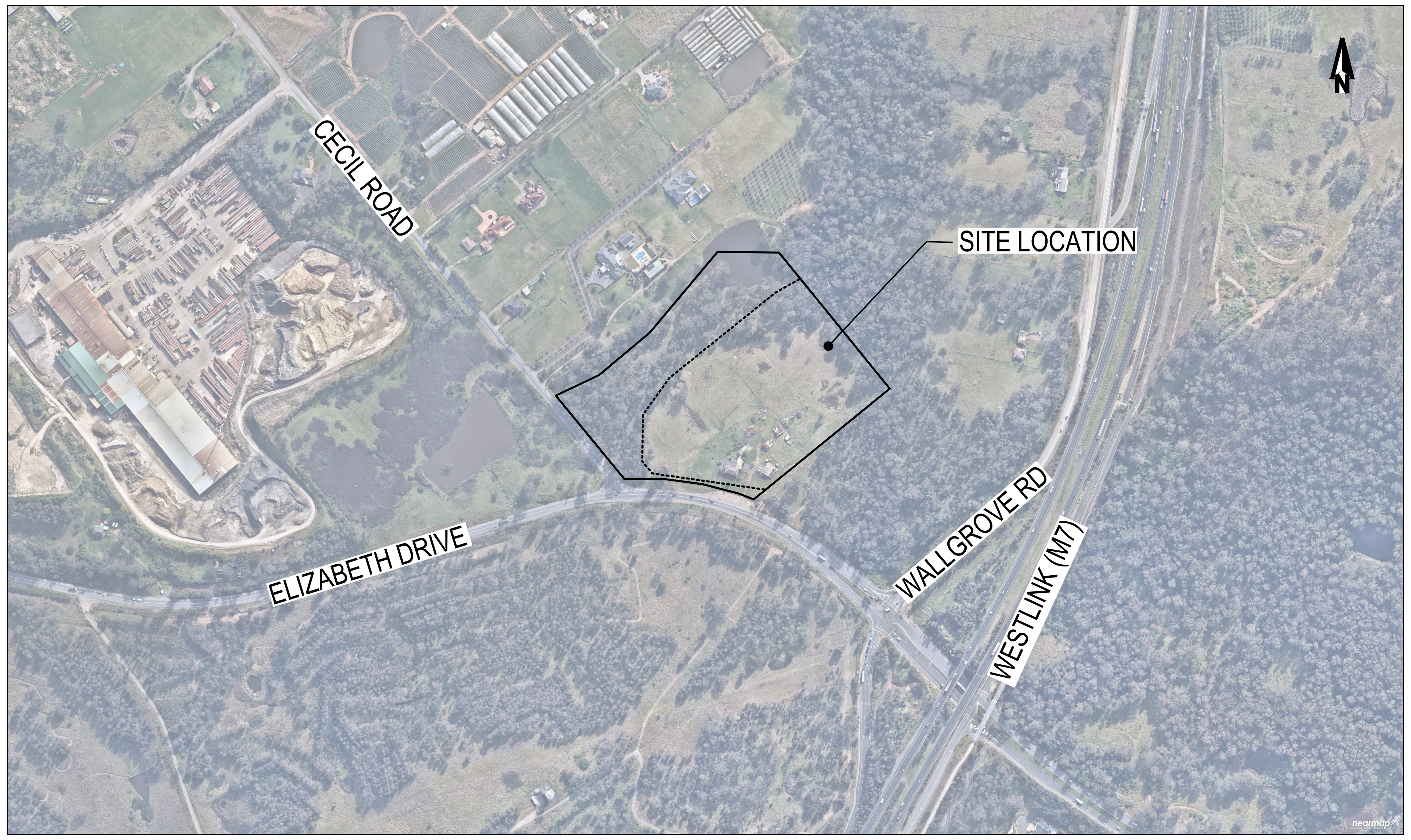
PROJECT: PROPOSED COMMERCIAL DEVELOPMENT

PLANSET: CONCEPT CIVIL DESIGN

CLIENT: AE DESIGN PARTNERSHIP



LOCALITY PLAN
NOT TO SCALE

LGA: FAIRFIELD CITY COUNCIL

1111-1141 ELIZABETH DRIVE, CECIL PARK, NSW-2573
LOT 2 SECTION 4 DP 2954

DRAWING LIST

DWG NO.	REV	DWG TITLE
GENERAL		
PS03-A000	B	COVER SHEET
PS03-A050	B	DEVELOPMENT OVERVIEW PLAN
CONSTRUCTION MANAGEMENT WORKS		
PS03-B300	B	SEDIMENT & EROSION CONTROL PLAN
PS03-B310	A	SEDIMENT & EROSION CONTROL DETAILS
EARTHWORKS		
PS03-C100	B	EARTHWORKS GRADING PLAN
PS03-C500	B	EARTHWORKS CUT-FILL PLAN
PS03-C600	A	EARTHWORKS SITE SECTION
ROADWORKS		
PS03-D100	B	ROADWORKS PLAN
PS03-D200	A	ROAD 1 (21-MRC01) LONGITUDINAL SECTION & TYPICAL SECTIONS
DRAINAGE		
PS03-E100	B	DRAINAGE PLAN
PS03-E200	A	DRAINAGE DETAILS
PS03-E600	B	OSD CATCHMENT PLAN, MODEL AND RESULTS
PS03-E700	B	WATER QUALITY CATCHMENT PLAN, MODEL AND RESULTS
STRUCTURE AND PAVEMENTS		
PS03-G210	A	RETAINING WALL SECTION
PS03-G220	A	CONCEPT RETAINING WALL DETAILS
PS03-G400	B	PAVEMENT PLAN

GENERAL NOTES

1 THIS PLAN IS FOR DEVELOPMENT APPLICATION PURPOSE AND NOT FOR CONSTRUCTION. DESIGN TO BE REVIEWED AND UPDATED FOR CONSTRUCTION CERTIFICATE.
2 ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH, AND THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE RELEVANT AUSTRALIAN STANDARDS, COUNCIL SPECIFICATIONS, AND ALL PROJECT CONSULTANT'S PLANS AND REPORTS.
3 INTERNAL SURVEY INFORMATION SHOWN BASED ON SURVEY PROVIDED BY PROJECT SURVEYOR AND LIDAR DATA FROM NSW SPATIAL SERVICES.
4 SITE BOUNDARY BASED ON INFORMATION PROVIDED BY PROJECT SURVEYOR.
5 LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
6 FINAL SURFACE CONTOURS ARE BASED ON PROPOSED AND EXISTING SURFACE.
7 THIS PLANSET HAS BEEN PREPARED IN RESPONSE TO THE PROPOSED ACQUISITION OF PART OF THE SITE WHICH WILL REDUCE THE SITE AREA BY 26,617SQM. THE ACQUISITION OF THE AREA OF THE SITE PROPOSED BY TfNSW HAS REQUIRED AMENDMENTS TO BE MADE TO THE PROPOSED DEVELOPMENT AND DEVELOPMENT FOOTPRINT WHICH REQUIRE A RE-ASSESSMENT OF THE IMPACTS AND DESIGN WHICH RESPONDS TO THE NEW DEVELOPMENT SITE.

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	**MINOR AMENDMENTS**	**14/08/2020**	**JS**	**CG**	**SA**	**TH**
A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

SCALE

GRID	DATUM	PROJECT MANAGER
---	---	TH

CLIENT: AE DESIGN PARTNERSHIP

PROJECT NAME/PLANSET TITLE: PROPOSED COMMERCIAL DEVELOPMENT
CONCEPT CIVIL DESIGN
1111-1141 ELIZABETH DRIVE, CECIL PARK, NSW-2573
LOT 2 SECTION 4 DP 2954

martens & Associates Pty Ltd
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Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE: COVER SHEET

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-A000	B

KEY

EXISTING CONTOURS	
LOT BOUNDARY	
GAS PIPE EASEMENT	
BUSHFIRE ASSET PROTECTION ZONE	
LANDSCAPE SETBACK	
REVISED SITE BOUNDARY AFTER ACQUISITION	
SITE BOUNDARY	

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	MINOR AMENDMENTS	14/08/2020	JS	CG	SA	TH
A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

PRINTED: 14.08.2020 - USER: RKOLAHDOOZHA

A1 / A3 LANDSCAPE (A1LC_v02.0.01)

SCALE 0 10 20 30 40 50 60 70 80 90 100 METRES
A1 (A3) 1:1,000 (1:2,000)

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH

DISCLAIMER & COPYRIGHT

This plan must not be used for construction unless signed as approved by principal certifying authority.

All measurements in millimetres unless otherwise specified.

CLIENT
AE DESIGN PARTNERSHIP

PROJECT NAME/PLANSET TITLE
PROPOSED COMMERCIAL DEVELOPMENT
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DRAWING TITLE
DEVELOPMENT OVERVIEW PLAN

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-A050	B

DRAWING ID: P1706121-PS03-R02-A050

KEY:

- EXISTING CONTOURS
- SEDIMENT FENCE
- EARTH BANK (LOW FLOW) WITH GEOTEXTILE LINING FOR UPSTREAM STORM WATER DIVERSION
- MESH AND GRAVEL INLET FILTER
- INDICATIVE STOCKPILE
- STABILISED SITE ACCESS WITH SHAKER PAD
- TREE TO BE REMOVED
- FEATURE TO BE REMOVED

NOTE:

- TO BE READ IN CONJUNCTION WITH SEDIMENT AND EROSION CONTROL DETAILS. PLEASE REFER TO PS03-B310.
- ALL EXCESS MATERIAL SHALL BE REMOVED FROM SITE.
- COUNCIL PERMISSION TO BE OBTAINED FROM REMOVAL OF TREES ON COUNCIL LAND.
- EROSION AND SEDIMENT CONTROLS TO BE IN PLACE AT ALL TIMES. CONTROLS TO BE INSPECTED, MAINTAINED AND REPLACED AS REQUIRED BY THE CONTRACTOR UNTIL WORKS ARE COMPLETED AND PERMANENT MEASURES HAVE BEEN ESTABLISHED.
- WHEEL WASH TO BE PROVIDED AT THE SITE ENTRY (BUILT IN SITU OR PORTABLE).

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	**MINOR AMENDMENTS**	**14/08/2020**	**JS**	**CG**	**SA**	**TH**
A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

PRINTED: ---- - USER: RKOLAHDOOZHA

A1 / A3 LANDSCAPE (A1LC_v02.0.01)

SCALE 0 5 10 15 20 25 30 35 40 45 50 METRES
A1 (A3) 1:500 (1:1,000)

GRID: MGA
DATUM: mAHD
PROJECT MANAGER: TH

CLIENT: AE DESIGN PARTNERSHIP

PROJECT NAME/PLANSET TITLE
PROPOSED COMMERCIAL DEVELOPMENT
CONCEPT CIVIL DESIGN
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DRAWING TITLE: SEDIMENT & EROSION CONTROL PLAN

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-B300	B

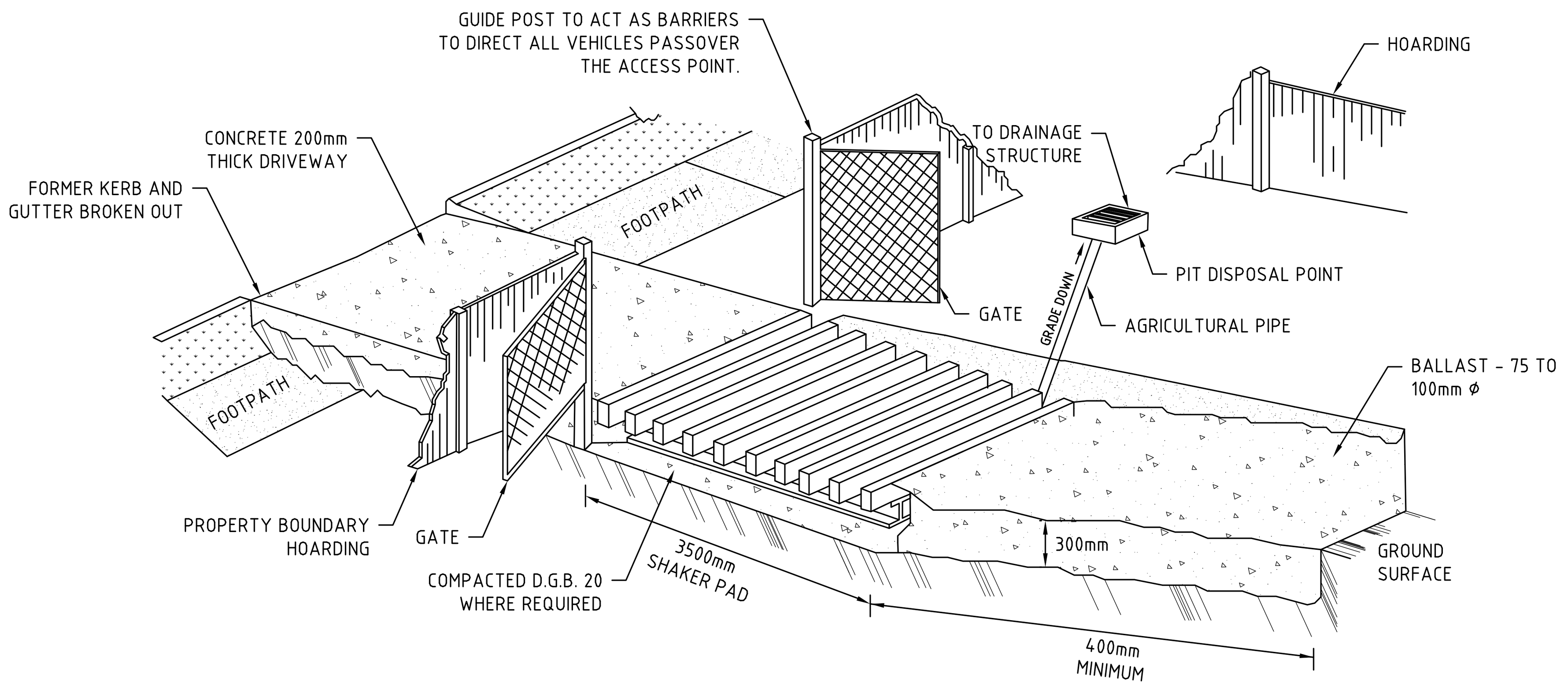
DRAWING ID: P1706121-PS03-R02-B300

STABILISED ACCESS POINT

TYPE II SAP

THE TYPE II SAP DESIGN IS MORE DEFINED IN THAT IT REQUIRES AN AREA OF BALLAST WITHIN THE SITE COMBINED WITH A SHAKER PAD; ADJACENT THE SHAKER PAD AND IN THE PUBLIC WAY IS A TEMPORARY (CONCRETE) VEHICULAR CROSSING. (SEE DIAGRAM)

STABILISED ACCESS POINT - TYPE 2



IN BOTH TYPE I AND TYPE II SAP'S, THE TEMPORARY VEHICULAR CROSSING MUST:

- CONNECT TO AN EXISTING GUTTER LAYBACK (WHERE THE KERB AND GUTTER EXIST) . IF A GUTTER LAYBACK DOES NOT EXIST THEN THE CONNECTION MUST BE MADE TO THE GUTTER BY REMOVING THE ADJCENT KERB SECTION ONLY.
- CONNECT TO A DISH CROSSING (WHERE KERB AND GUTTER DOES NOT EXIST). IF A DISH CROSSING DOES NOT EXIST, THEN IT MUST BE CONSTRUCTED IN ACCORDANCE WITH DETAILS CONTAINED IN COUNCIL'S ISSUED FOOTPATH CROSSING LEVELS.

IT SHOULD BE NOTED THAT THESE TYPES OF SAPS ARE CONSIDERED TO BE APPLICABLE FOR THE MAJORITY OF ACTIVITIES HOWEVER SOME SITES MAY REQUIRE SPECIAL CONSIDERATION.

SHAKER PAD (CATTLE GRID)

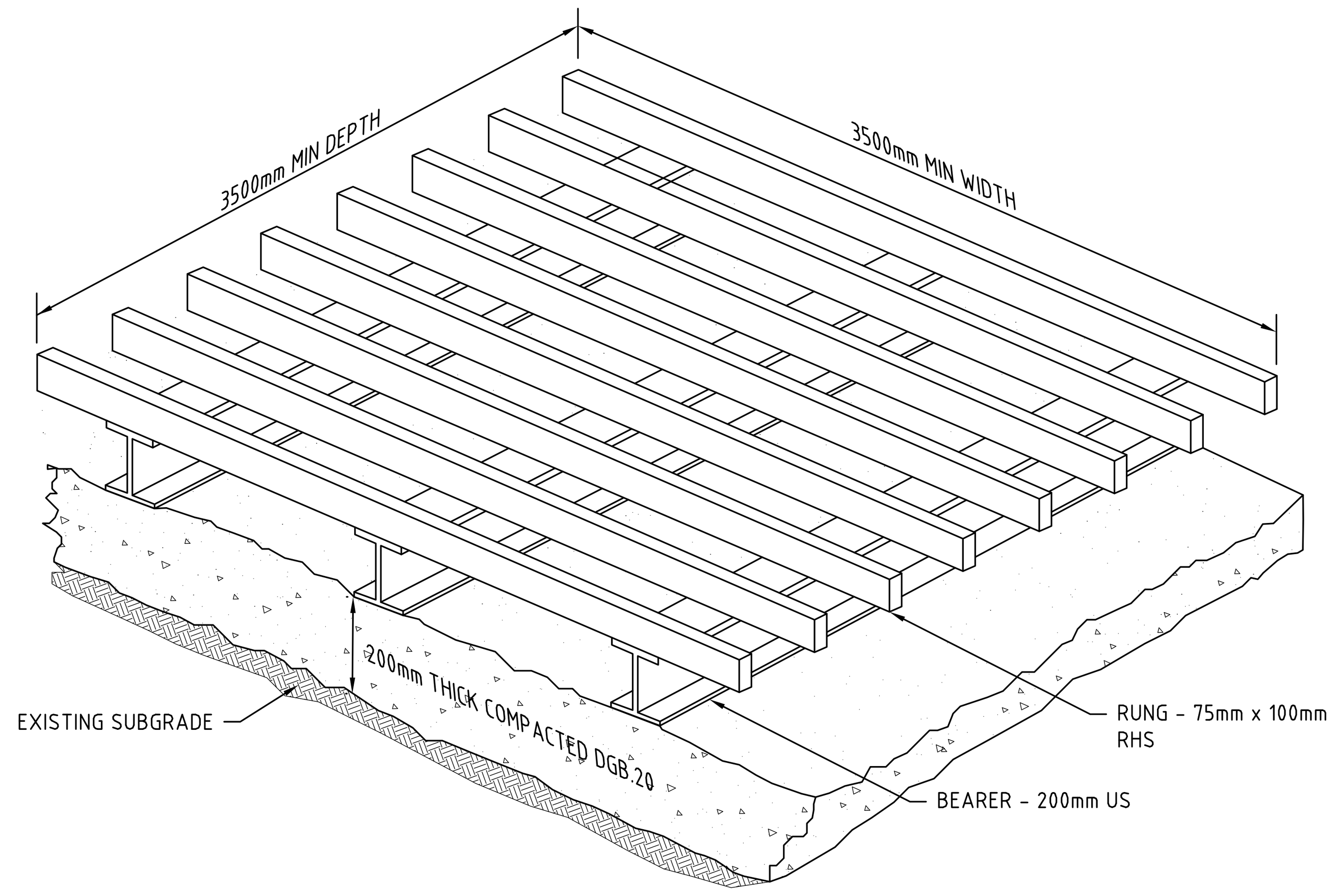
A CORRECTLY DESIGNED AND INSTALLED SHAKER PAD WILL ASSIST IN PREVENTING SEDIMENT TRANSFERE FROM A SITE. ANY STABILISED ACCESS POINT (SAP) CAN BE DESIGNED WITH A SHAKER PAD (COMPULSOPRY IN TYPE II SAP'S)

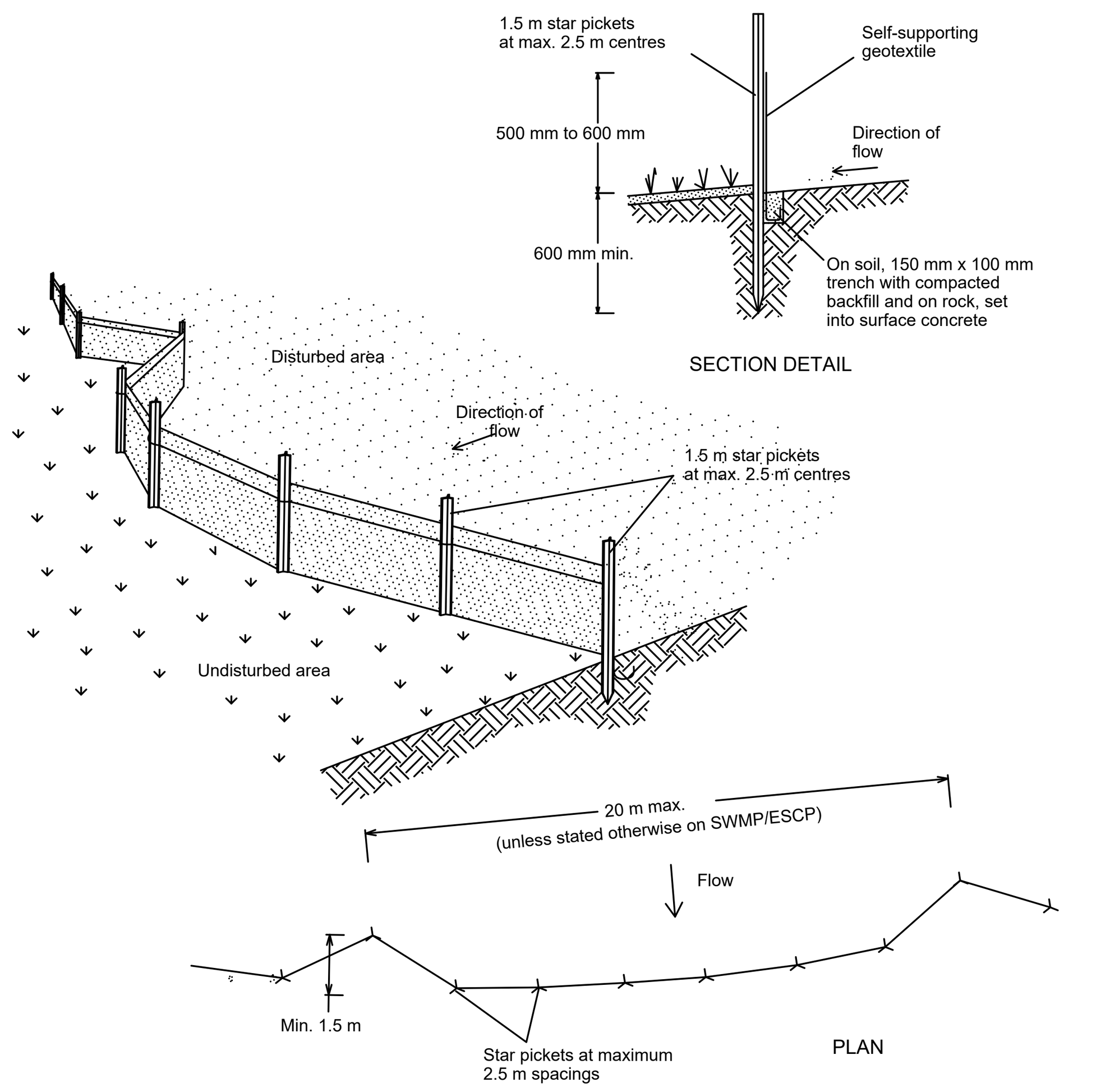
SHAKER PADS CAN BE DESIGNED AND CONSTRUCTED TO ENABLE RE-USE ON FUTURE PROJECTS.

THE SHAKER PAD:

- MUST BE DESIGNED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER. THE CERTIFIED DESIGN SHOULD BE SUBMITTED WITH THE RELEVENT APPLICATION.
- CAN BE CONSTRUCTED FROM ANY SUITABLE MATERIAL.
- MUST BE LOCATED ON A SUITABLY PREPARED AND COMPACTED SUB-GRADE/BASE MATERIAL.
- MUST BE SITUATED SUCH THAT THE RUNGS OF THE SHAKER PAD ARE LEVEL WITH THE ADJOINING NATURAL SURFACE.
- MUST BE A MINIMUM OF 3.5m IN LENGTH.
- MUST BE A MINIMUN OF 3.5m IN WIDTH.
- MUST HAVE CLEAR SPACING BETWEEN RUNGS OF 200 - 250mm.
- RUNGS MUST HAVE A MAXIMUM WIDTH (BEARING AREA) OF 75mm.
- MUST HAVE A MINIMUM CLEAR DEPTH OF 300mm IE FORM THE ROP OF THE RUNG TO THE FINISHED SUB-GRADE/BASE LEVEL.

THE SHAKER PAD MUST BE PROVIDED WITH SUITABLE BARRIERS AT THE SIDES TO ENSURE THAT ALL TYERS OF VEHICLES LEAVING THE SITE TRAVERSE THE DEVICE.

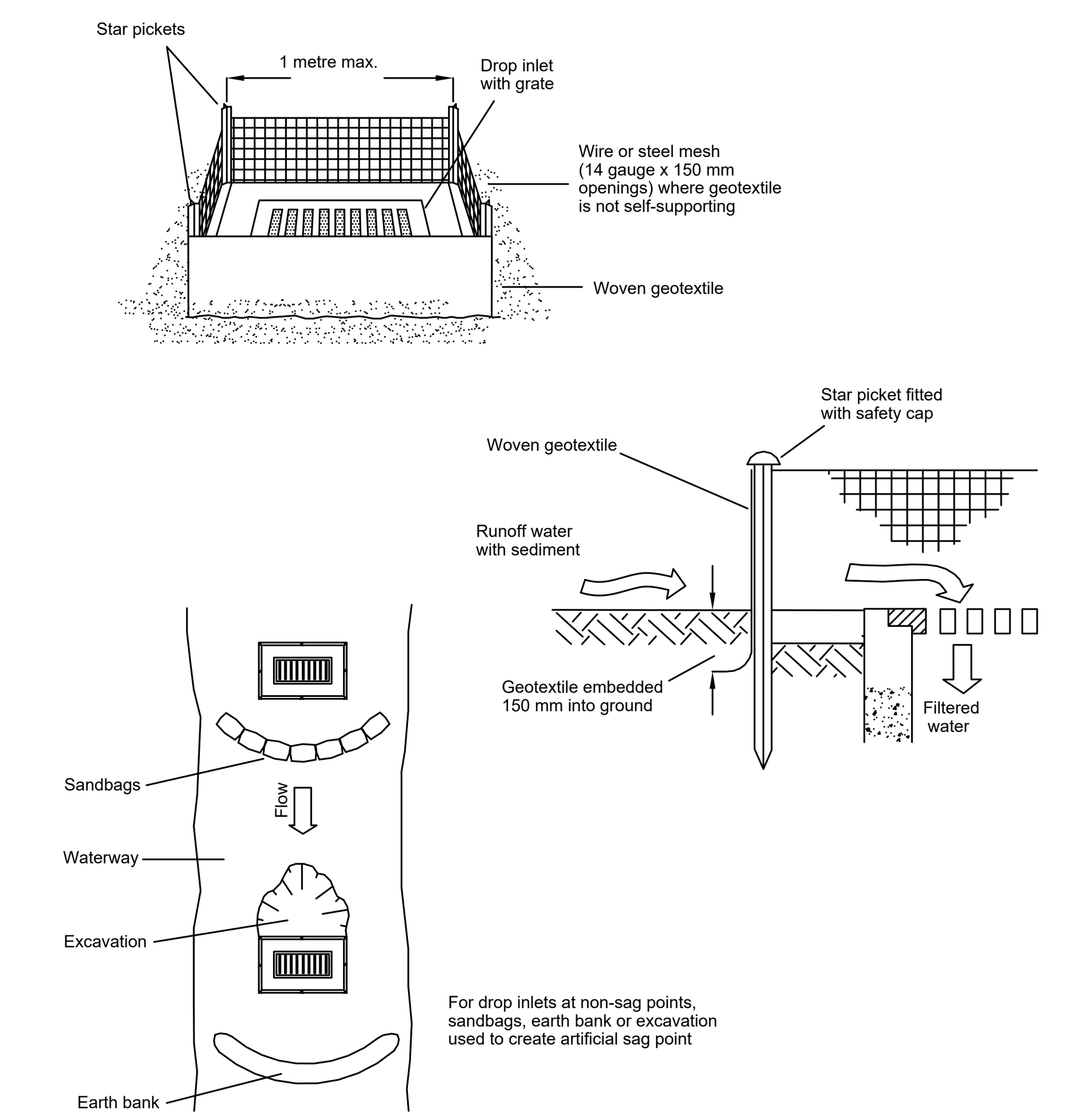




Construction Notes

1. Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
2. Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
3. Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
4. Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
5. Join sections of fabric at a support post with a 150-mm overlap.
6. Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

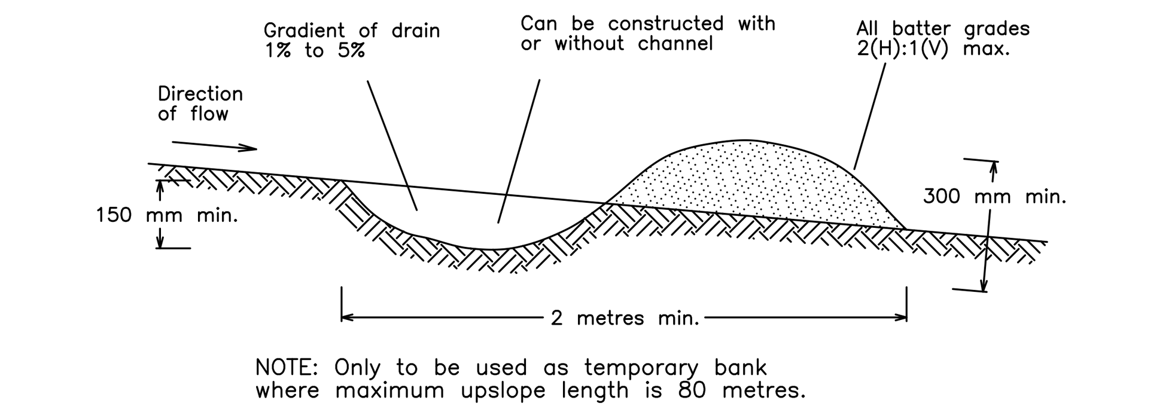
SEDIMENT FENCE SD 6-8



Construction Notes

1. Fabricate a sediment barrier made from geotextile or straw bales.
2. Follow Standard Drawing 6-7 and Standard Drawing 6-8 for installation procedures for the straw bales or geofabric. Reduce the picket spacing to 1 metre centres.
3. In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
4. Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

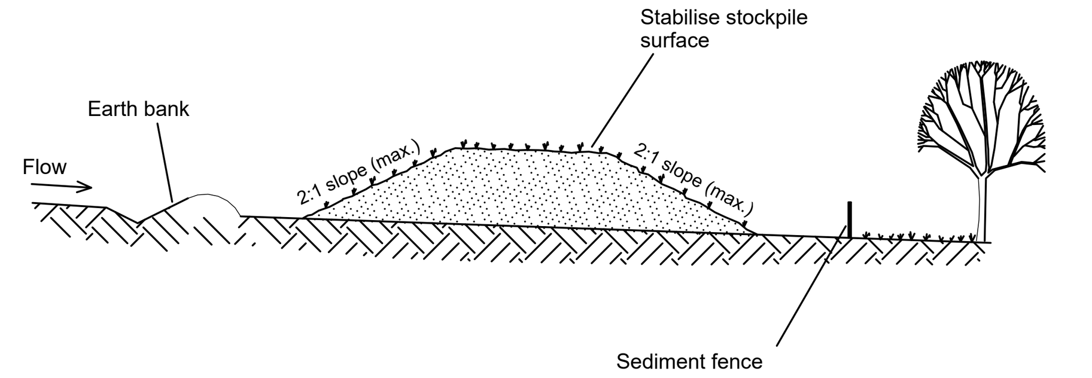
GEOTEXTILE INLET FILTER SD 6-12



Construction Notes

1. Build with gradients between 1 percent and 5 percent.
2. Avoid removing trees and shrubs if possible - work around them.
3. Ensure the structures are free of projections or other irregularities that could impede water flow.
4. Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
5. Ensure the banks are properly compacted to prevent failure.
6. Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW) SD 5-5



Construction Notes

1. Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
2. Construct on the contour as low, flat, elongated mounds.
3. Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
4. Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
5. Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

STOCKPILES SD 4-1

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

SCALE

GRID: --- DATUM: --- PROJECT MANAGER: TH

CLIENT: AE DESIGN PARTNERSHIP

PROJECT NAME/PLANSET TITLE
PROPOSED COMMERCIAL DEVELOPMENT
CONCEPT CIVIL DESIGN
1111-1141 ELIZABETH DRIVE, CECIL PARK, NSW-2573
LOT 2 SECTION 4 DP 2954

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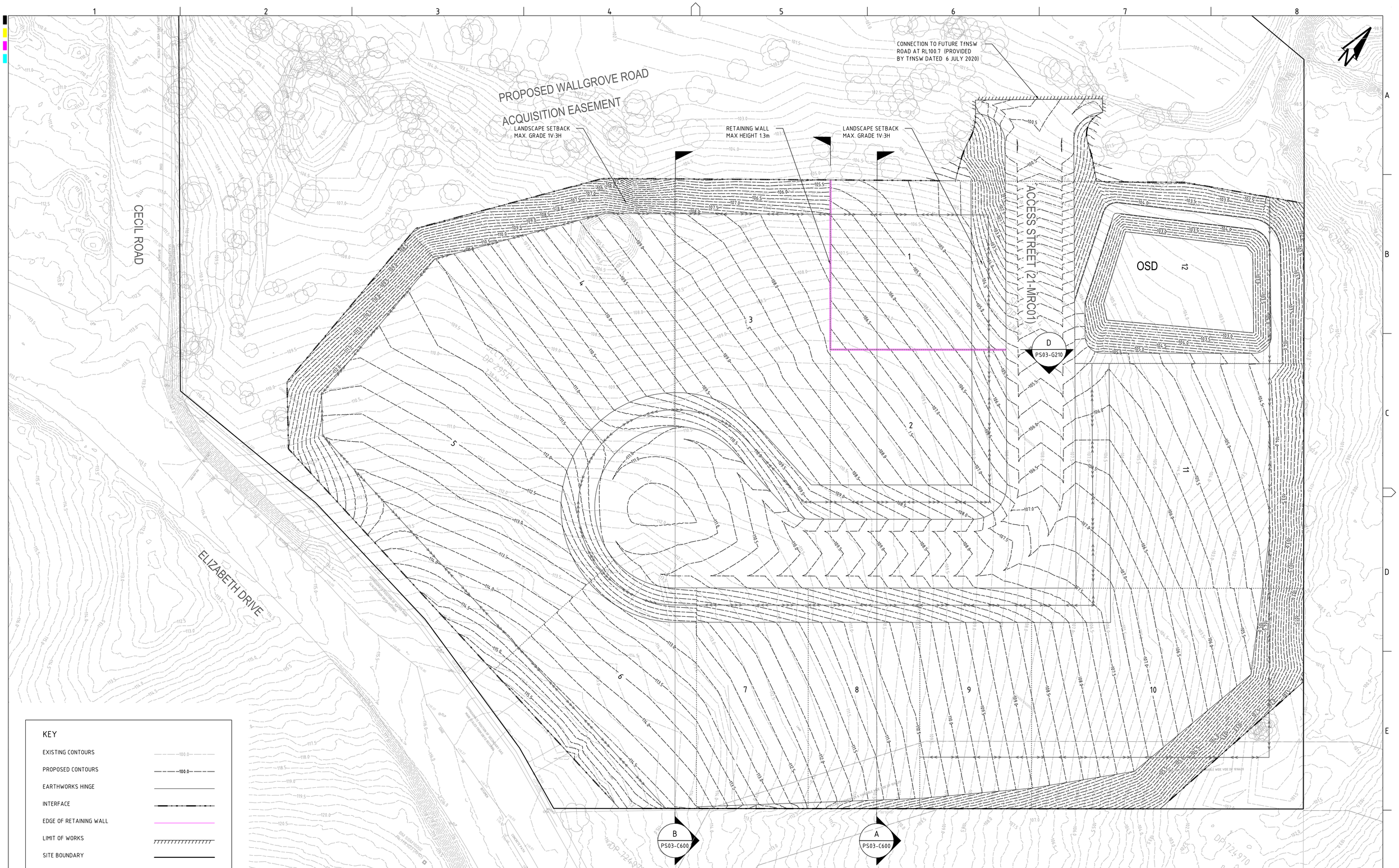
DRAWING TITLE
SEDIMENT & EROSION CONTROL DETAILS

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-B310	A



KEY

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EARTHWORKS HINGE
- INTERFACE
- EDGE OF RETAINING WALL
- LIMIT OF WORKS
- SITE BOUNDARY

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
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A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

SCALE
0 5 10 15 20 25 30 35 40 45 50 METRES
A1 (A3) 1:500 (1:1,000)

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH

CLIENT
AE DESIGN PARTNERSHIP

PROJECT NAME/PLANSET TITLE
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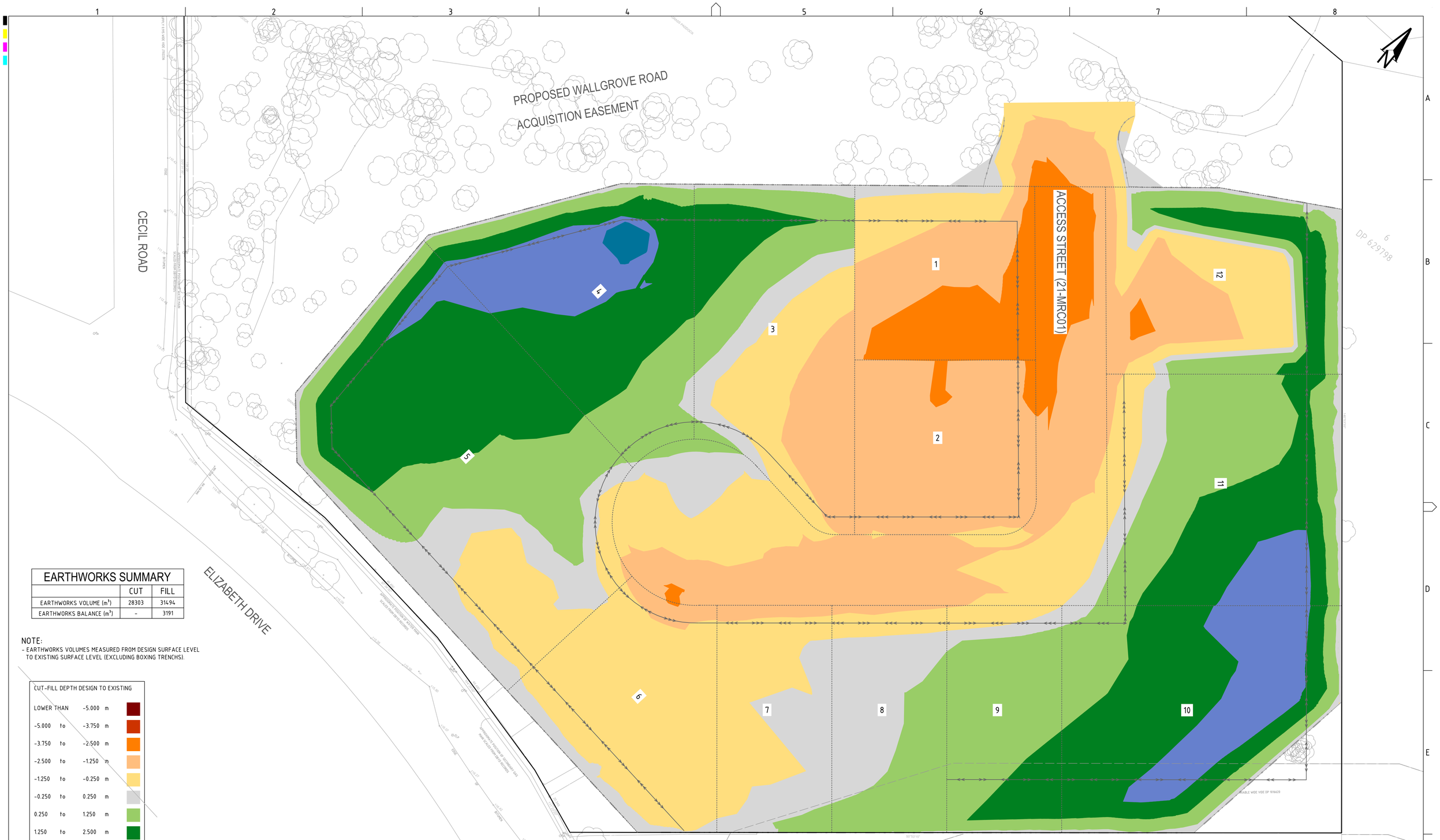
DRAWING TITLE
EARTHWORKS GRADING PLAN

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-C100	B

DRAWING ID: P1706121-PS03-R02-C100

PRINTED ---- USER: PAUL.HARDIZHA
A1 / A3 LANDSCAPE (A1LC_v02.0.01)



EARTHWORKS SUMMARY

	CUT	FILL
EARTHWORKS VOLUME (m^3)	28303	31494
EARTHWORKS BALANCE (m^3)	-	3191

NOTE:
- EARTHWORKS VOLUMES MEASURED FROM DESIGN SURFACE LEVEL TO EXISTING SURFACE LEVEL (EXCLUDING BOXING TRENCHS).

CUT-FILL DEPTH DESIGN TO EXISTING

LOWER THAN	-5.000	m	
-5.000	to -3.750	m	
-3.750	to -2.500	m	
-2.500	to -1.250	m	
-1.250	to -0.250	m	
-0.250	to 0.250	m	
0.250	to 1.250	m	
1.250	to 2.500	m	
2.500	to 3.750	m	
3.750	to 5.000	m	
HIGHER THAN	5.000	m	

DEVELOPMENT APPLICATION

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SCALE
0 5 10 15 20 25 30 35 40 45 50 METRES
A1 (A3) 1:500 (1:1,000)

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH

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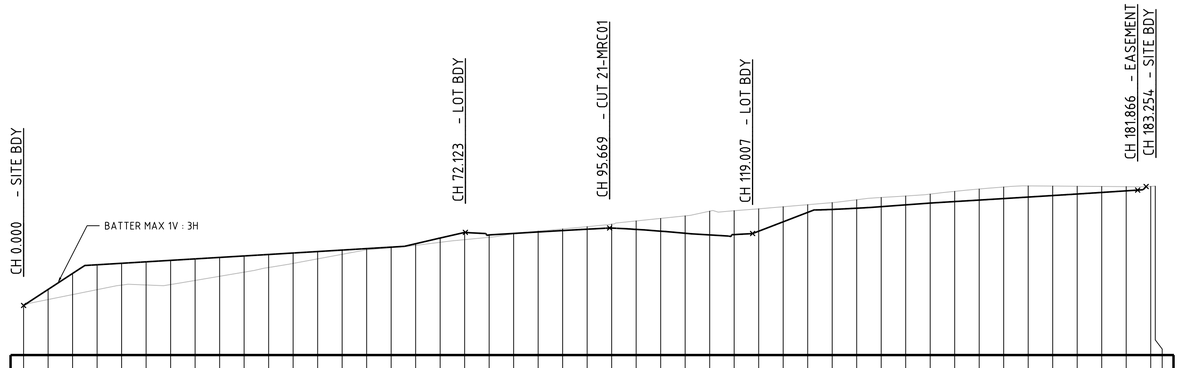
DRAWING TITLE
EARTHWORKS CUT-FILL PLAN

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-C500	B

DRAWING ID: P1706121-PS03-R02-C500

PRINTED: ---- - USER: AVOLANDOZHA
A1 / A3 LANDSCAPE (A1LC_v02.0.01)



DATUM RL 101.000

DESIGN SURFACE LEVELS	105.057	106.364	107.671	108.378	108.498	108.618	108.738	108.858	108.978	109.098	109.217	109.337
EXISTING SURFACE LEVELS	105.057	105.541	105.944	106.347	106.720	106.729	106.765	107.099	107.437	107.775	108.156	108.488
CUT / FILL DEPTH	0.000	0.823	1.727	2.031	1.779	1.890	1.973	1.760	1.541	1.322	1.062	0.849
CHAINAGE	0.000	4.000	8.000	12.000	16.000	20.000	24.000	28.000	32.000	36.000	40.000	44.000

DESIGN SURFACE LEVELS	109.457	109.577	109.697	109.817	110.095	110.560	111.017	110.814	110.934	111.054	111.169	111.281
EXISTING SURFACE LEVELS	108.860	109.231	109.599	109.772	109.961	110.210	110.428	110.620	110.911	111.122	111.302	111.484
CUT / FILL DEPTH	0.598	0.346	0.099	0.045	0.134	0.350	0.589	0.194	0.023	-0.068	-0.133	-0.203
CHAINAGE	48.000	52.000	56.000	60.000	64.000	68.000	72.000	76.000	80.000	84.000	88.000	92.000

DESIGN SURFACE LEVELS	111.372	111.261	111.117	110.949	110.813	110.839	111.116	111.884	112.652	112.891	112.993	113.119
EXISTING SURFACE LEVELS	111.689	111.955	112.161	112.367	112.751	112.790	112.943	113.112	113.280	113.449	113.683	113.870
CUT / FILL DEPTH	-0.318	-0.693	-1.044	-1.418	-1.938	-1.951	-1.828	-1.228	-0.628	-0.558	-0.690	-0.751
CHAINAGE	96.000	100.000	104.000	108.000	112.000	116.000	120.000	124.000	128.000	132.000	136.000	140.000

DESIGN SURFACE LEVELS	113.266	113.412	113.535	113.657	113.779	113.902	114.026	114.152	114.279	114.410		
EXISTING SURFACE LEVELS	113.990	114.145	114.368	114.559	114.724	114.814	114.799	114.784	114.769	114.754	114.772	114.792
CUT / FILL DEPTH	-0.724	-0.732	-0.833	-0.902	-0.945	-0.912	-0.773	-0.632	-0.490	-0.344	0.386	0.758
CHAINAGE	144.000	148.000	152.000	156.000	160.000	164.000	168.000	172.000	176.000	180.000	184.000	184.742

SECTION A

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:250

DATUM RL 101.000

DESIGN SURFACE LEVELS	105.162	105.283	105.401	105.521	105.643	105.764	105.884	106.005	106.126	106.247	106.368	106.488
EXISTING SURFACE LEVELS	105.162	105.659	106.155	106.480	106.892	107.334	107.778	108.124	108.455	108.792	109.065	109.245
CUT / FILL DEPTH	0.000	-0.376	-0.754	-0.959	-1.250	-1.570	-1.894	-2.119	-2.329	-2.545	-2.698	-2.757
CHAINAGE	0.000	4.000	8.000	12.000	16.000	20.000	24.000	28.000	32.000	36.000	40.000	44.000

DESIGN SURFACE LEVELS	106.609	107.240	107.360	107.480	107.600	107.720	107.840	107.960	108.080	108.200	108.320	108.606
EXISTING SURFACE LEVELS	109.389	109.531	109.665	109.791	109.906	109.995	110.057	110.086	110.147	110.206	110.262	110.328
CUT / FILL DEPTH	-2.779	-2.291	-2.305	-2.311	-2.306	-2.275	-2.217	-2.126	-2.067	-2.006	-1.942	-1.722
CHAINAGE	48.000	52.000	56.000	60.000	64.000	68.000	72.000	76.000	80.000	84.000	88.000	92.000

DESIGN SURFACE LEVELS	108.926	109.092	108.972	109.092	109.013	109.060	109.339	109.938	110.538	110.673	110.713	110.753
EXISTING SURFACE LEVELS	110.413	110.443	110.441	110.520	110.556	110.587	110.630	110.674	110.619	110.600	110.581	110.562
CUT / FILL DEPTH	-1.487	-1.351	-1.469	-1.428	-1.543	-1.527	-1.291	-0.736	-0.081	0.073	0.132	0.191
CHAINAGE	96.000	100.000	104.000	108.000	112.000	116.000	120.000	124.000	128.000	132.000	136.000	140.000

DESIGN SURFACE LEVELS	110.807	110.880	110.954	111.027	111.101	111.174	111.242	111.282	111.322	111.361	
EXISTING SURFACE LEVELS	110.583	110.653	110.724	110.744	110.761	110.767	110.697	110.587	110.494	110.447	110.537
CUT / FILL DEPTH	0.224	0.227	0.230	0.284	0.340	0.407	0.545	0.694	0.828	0.914	-0.187
CHAINAGE	144.000	148.000	152.000	156.000	160.000	164.000	168.000	172.000	176.000	180.000	183.890

SECTION B

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:250

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

SCALE
A1 (A3) 1:500 (1:1,000) METRES
A1 (A3) 1:250 (1:500) METRES

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH

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CLIENT
AE DESIGN PARTNERSHIP

PROJECT NAME/PLANSET TITLE
PROPOSED COMMERCIAL DEVELOPMENT
CONCEPT CIVIL DESIGN
1111-1141 ELIZABETH DRIVE, CECIL PARK, NSW-2573
LOT 2 SECTION 4 DP 2954

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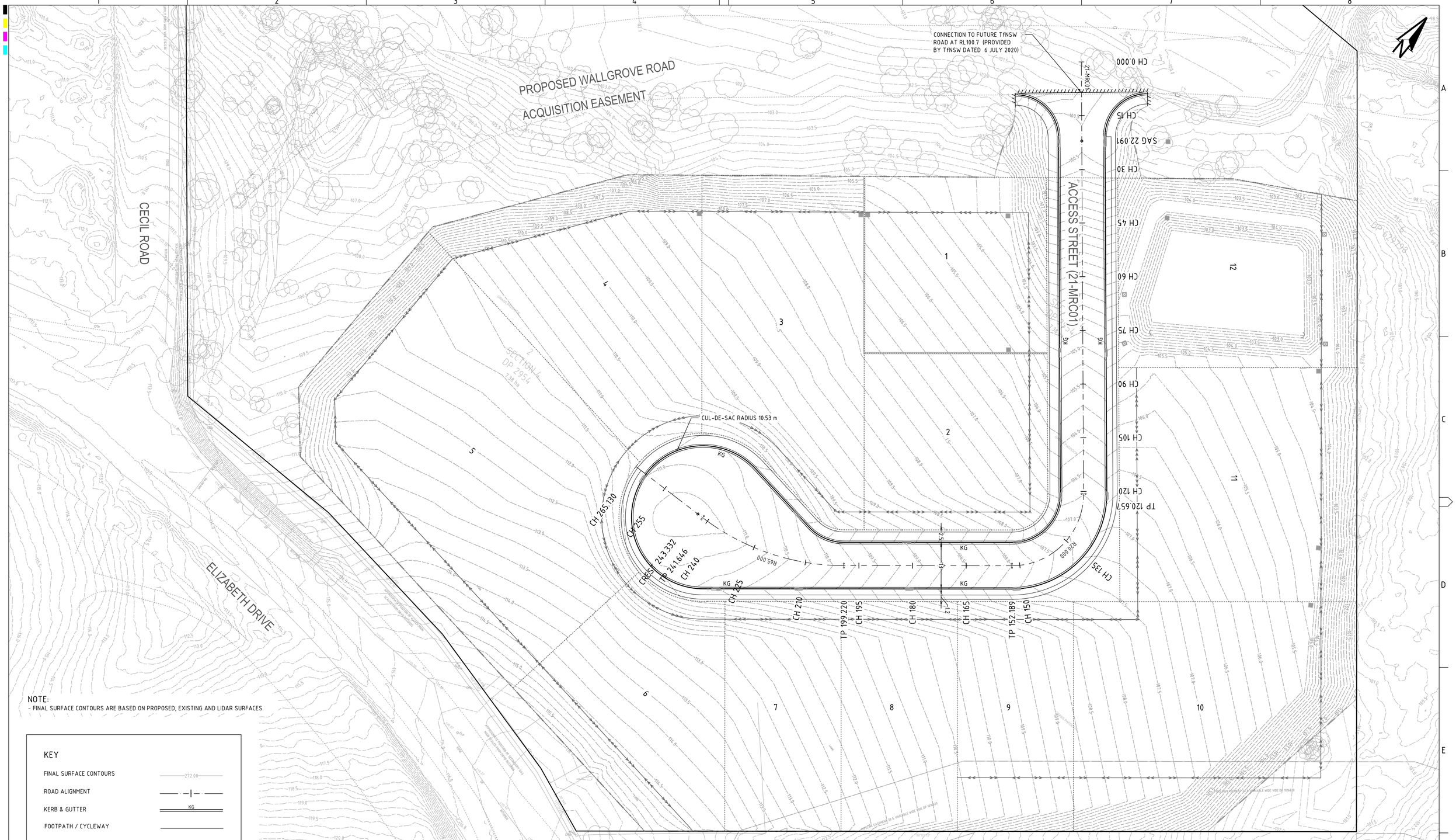
DRAWING TITLE
EARTHWORKS SITE SECTIONS

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-C600	A

DRAWING ID: P1706121-PS03-R02-C600

PRINTED: ---- - USER: RKOLAHDOOZHA

A1 / A3 LANDSCAPE (A1LC_v02.0.01)



NOTE:
- FINAL SURFACE CONTOURS ARE BASED ON PROPOSED, EXISTING AND LIDAR SURFACES.

KEY

- FINAL SURFACE CONTOURS — 272.00
- ROAD ALIGNMENT
- KERB & GUTTER — KG
- FOOTPATH / CYCLEWAY
- LIMIT OF WORKS
- SITE BOUNDARY
- FUTURE TfNSW ROAD

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	**MINOR AMENDMENTS**	**14/08/2020**	JS	CG	SA	TH
A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

SCALE
0 5 10 15 20 25 30 35 40 45 50 METRES
A1 (A3) 1:500 (1:1,000)

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH

CLIENT
AE DESIGN PARTNERSHIP

PROJECT NAME/PLANSET TITLE
PROPOSED COMMERCIAL DEVELOPMENT
CONCEPT CIVIL DESIGN
1111-1141 ELIZABETH DRIVE, CECIL PARK, NSW-2573
LOT 2 SECTION 4 DP 2954

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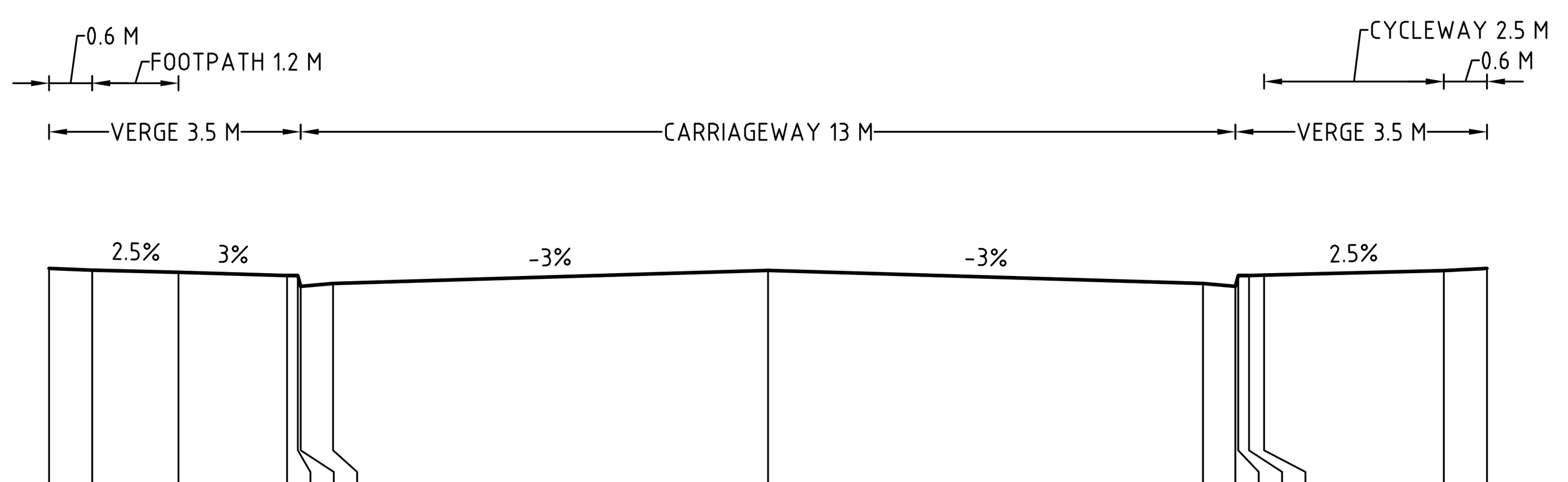
DRAWING TITLE
ROADWORKS PLAN

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-D100	B

DRAWING ID: P1706121-PS03-R02-D100

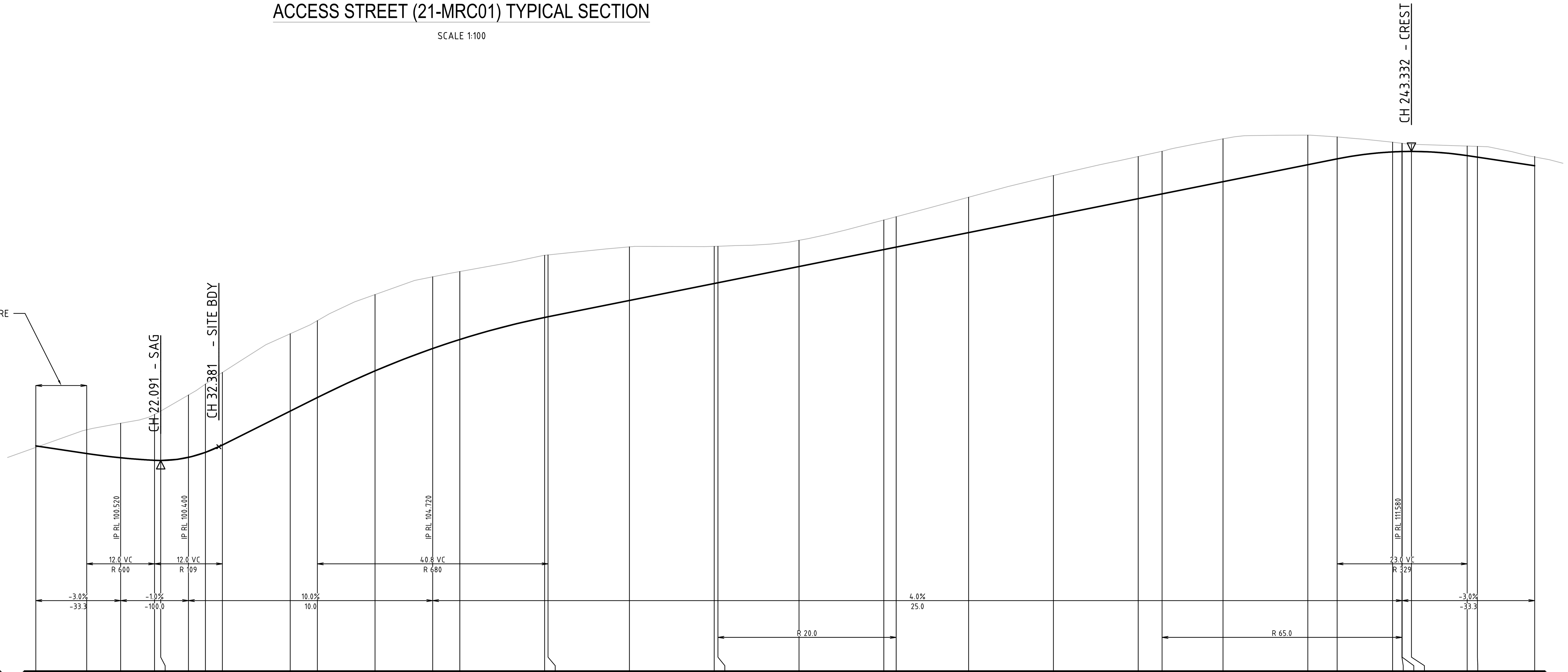
PRINTED: --- USER: RHILMORIZHA
A1 / A3 LANDSCAPE (A1LC_v02.0.01)



DESIGN ELEVATION	0.028	0.004	-0.026	-0.072	-0.072	-0.222	-0.182	0.000	-0.182	-0.222	-0.072	-0.072	-0.065	-0.003	0.028
OFFSET	-10.000	-9.400	-8.200	-6.690	-6.540	-6.500	-6.050	0.000	6.050	6.500	6.540	6.690	6.900	9.400	10.000

ACCESS STREET (21-MRC01) TYPICAL SECTION

SCALE 1:100



VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)
VERTICAL GRADE (%)
VERTICAL GRADE (1 IN ...)
HORIZONTAL CURVE RADIUS (m)

12.0 VC R 600; 12.0 VC R 109; 40.8 VC R 680; 23.0 VC R 329
-3.0% -33.3; -1.0% -100.0; 10.0% 10.0; 4.0% 25.0; -3.0% -33.3
R 20.0; R 65.0

DATUM RL 93.000

CHAINAGE	DESIGN SURFACE LEVELS	EXISTING SURFACE LEVELS	CUT / FILL DEPTH
0.000	100.970	100.917	0.054
9.000	100.700	101.541	-0.840
15.000	100.550	101.771	-1.221
21.000	100.460	102.083	-1.623
22.091	100.455	102.202	-1.747
27.000	100.565	102.769	-2.204
30.000	100.742	103.156	-2.414
33.000	101.000	103.567	-2.566
45.000	102.200	104.935	-2.735
49.801	102.680	105.398	-2.718
60.000	103.624	106.321	-2.697
70.201	104.414	106.949	-2.535
75.000	104.733	107.135	-2.402
90.000	105.512	107.710	-2.198
90.601	105.536	107.722	-2.186
105.000	106.112	108.008	-1.896
120.000	106.712	108.025	-1.313
120.657	106.739	108.028	-1.289
135.000	107.312	108.237	-0.924
150.000	107.912	108.957	-1.045
152.189	108.000	109.073	-1.073
165.000	108.512	109.763	-1.250
180.000	109.112	110.530	-1.418
195.000	109.712	111.202	-1.490
199.220	109.881	111.387	-1.506
210.000	110.312	111.828	-1.516
225.000	110.912	111.958	-1.046
230.189	111.120	111.895	-0.775
240.000	111.366	111.709	-0.343
241.646	111.379	111.670	-0.291
241.689	111.379	111.669	-0.290
243.332	111.383	111.637	-0.254
253.189	111.235	111.572	-0.337
255.000	111.181	111.561	-0.380
265.130	110.877	111.186	-0.309

ACCESS STREET (21-MRC01) LONG. SECTION

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:100

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

SCALE
A1 (A3) 1:500 (1:1,000) METRES
A1 (A3) 1:100 (1:200) METRES

GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AE DESIGN PARTNERSHIP

DISCLAIMER & COPYRIGHT

PROJECT NAME/PLANSET TITLE
PROPOSED COMMERCIAL DEVELOPMENT
CONCEPT CIVIL DESIGN
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DRAWING TITLE
ACCESS STREET (21-MRC01) LONGITUDINAL SECTION & TYPICAL SECTION

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-D200	A

DRAWING ID: P1706121-PS03-R02-D200

A1 / A3 LANDSCAPE (A1LC_v02 0.01)

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	MINOR AMENDMENTS	14/08/2020	JS	CG	SA	TH
A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

SCALE: A1 (A3) 1:500 (1:1,000) — 0 5 10 15 20 25 30 35 40 45 50 METRES

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH

CLIENT: AE DESIGN PARTNERSHIP

PROJECT NAME/PLANSET TITLE: PROPOSED COMMERCIAL DEVELOPMENT
CONCEPT CIVIL DESIGN
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LOT 2 SECTION 4 DP 2954

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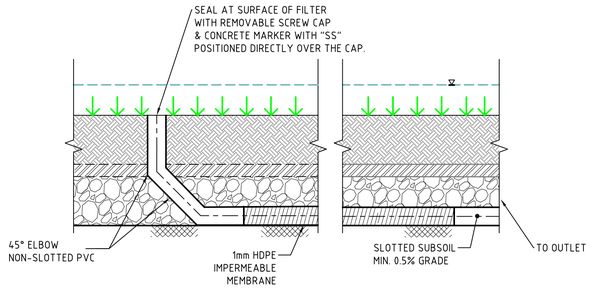
DRAWING TITLE: DRAINAGE PLAN

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-E100	B

DRAWING ID: P1706121-PS03-R02-E100

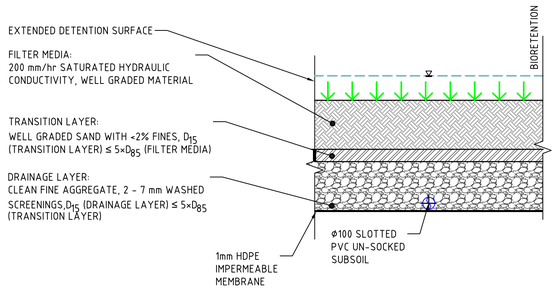
A1 / A3 LANDSCAPE (A1LC_v02.0.01)

PRINTED: ---- - USER: RKOLAHDOOZHA



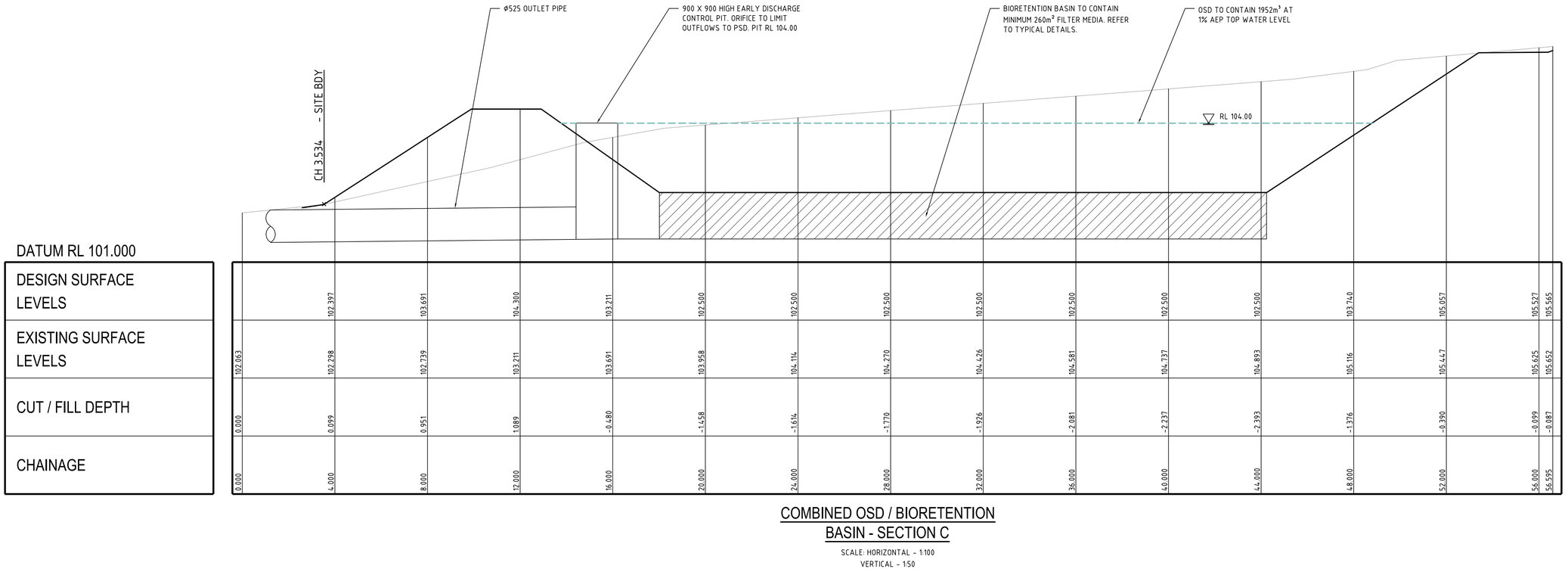
TYPICAL BIORETENTION SECTION

NOT TO SCALE



TYPICAL BIORETENTION DETAIL

NOT TO SCALE



COMBINED OSD / BIORETENTION BASIN - SECTION C

SCALE: HORIZONTAL - 1:100
VERTICAL - 1:50

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

SCALE
A1 (A3) 1:100 (1:200) 0 1 2 3 4 5 6 7 8 9 10 METRES
A1 (A3) 1:50 (1:100) 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 METRES

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH

CLIENT
AE DESIGN PARTNERSHIP

PROJECT NAME/PLANSET TITLE
PROPOSED COMMERCIAL DEVELOPMENT
CONCEPT CIVIL DESIGN
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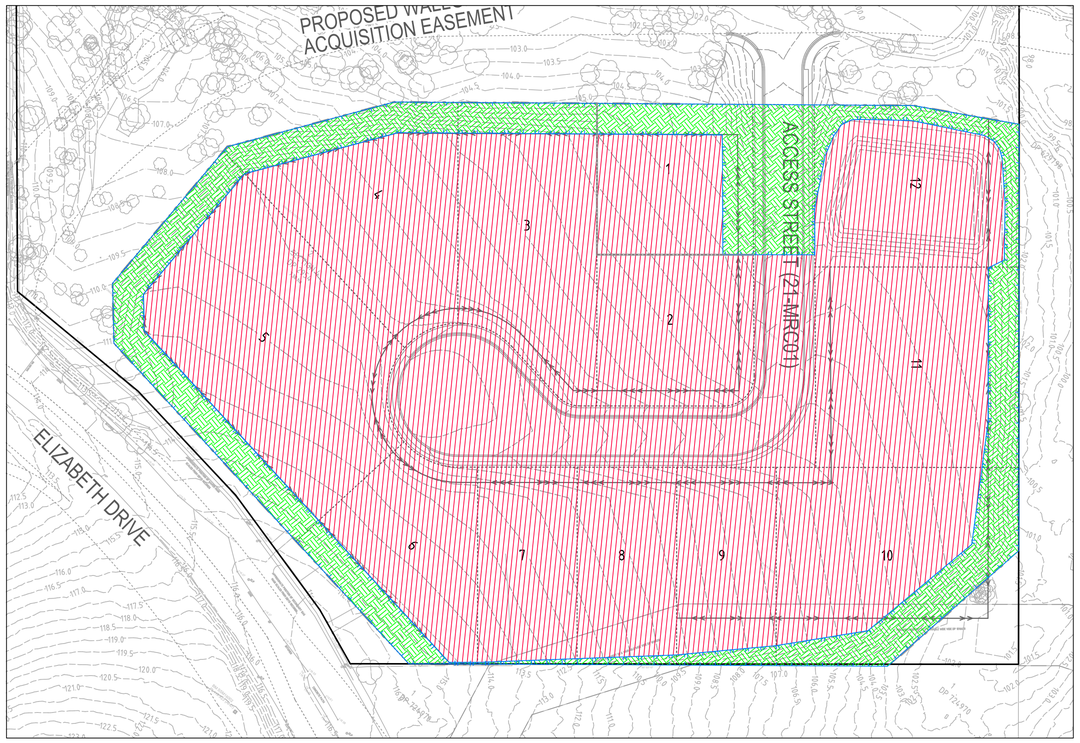
DRAWING TITLE
DRAINAGE DETAILS

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-E200	A

DRAWING ID: P1706121-PS03-R02-E200

PRINTED: --- USER: RYAN.HARGOTHA
A1 / A3 LANDSCAPE (A1LC_v02.0.01)



POST-DEVELOPMENT DRAINS CATCHMENT PLAN

SCALE 1:1000

KEY	CATCHMENT	AREA (ha)
	OSD	3.83
	BYPASS	0.82
	TOTAL AREA	4.65

OSD CALCULATIONS - SIMPLIFIED METHOD (FAIRFIELD STORMWATER MANAGEMENT POLICY)

$V = 4.09 \times A/100$

V = VOLUME (m^3)

A = DEVELOPMENT SITE AND OSD CATCHMENT (m^2)

DEVELOPMENT SITE AND OSD CATCHMENT:

AREA DRAINING TO OSD = 38300 m^2

AREA BYPASSING OSD = 8200 m^2

ADDITIONAL AREA TO BE CONSIDERED (15%) TO OFFSET BYPASS

OFFSET AREA = 8200×1.15

$= 9430\ m^2$

$A = 38300 + 9430$

$= 47730\ m^2$

$V = 4.09 \times (47730)/100$

$= 1952\ m^3$

MINIMUM REQUIRE OSD STORAGE = 1952 m^3

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	**MINOR AMENDMENTS**	**14/08/2020**	**JS**	**CG**	**SA**	**TH**
A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

SCALE
0 10 20 30 40 50 60 70 80 90 100 METRES
A1 (A3) 1:1,000 (1:2,000)

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH

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CLIENT
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PROJECT NAME/PLANSET TITLE
PROPOSED COMMERCIAL DEVELOPMENT
CONCEPT CIVIL DESIGN
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LOT 2 SECTION 4 DP 2954

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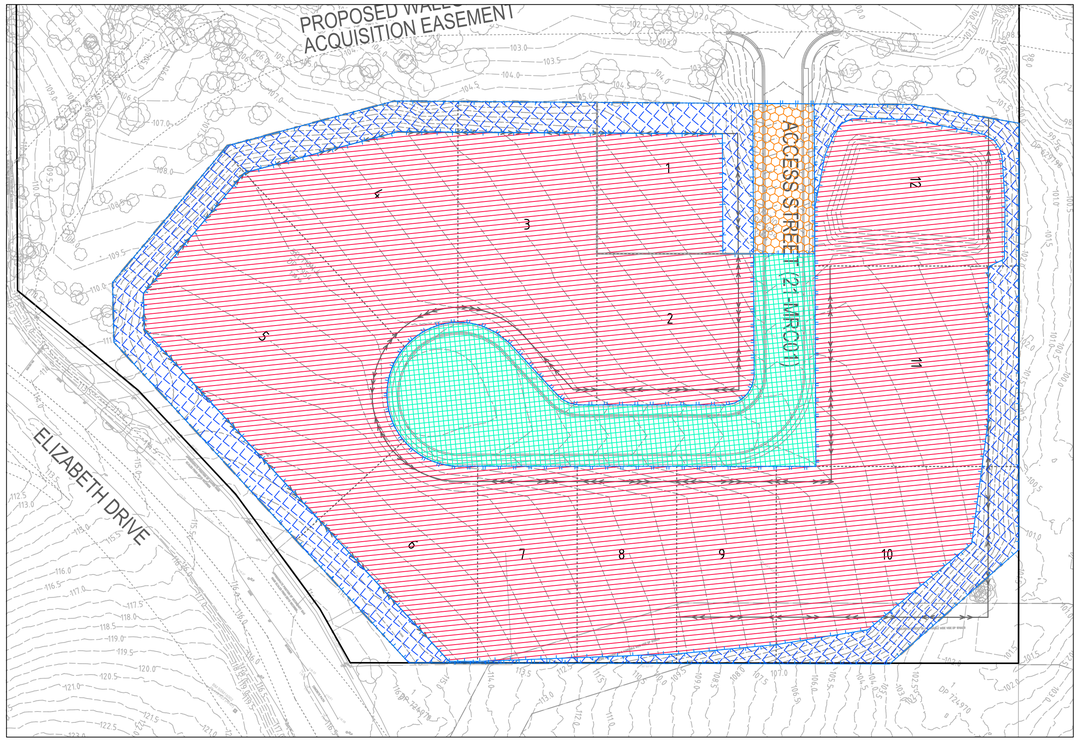
DRAWING TITLE
OSD CATCHMENT PLAN, MODEL AND RESULTS

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-E600	B

DRAWING ID: P1706121-PS03-R02-E600

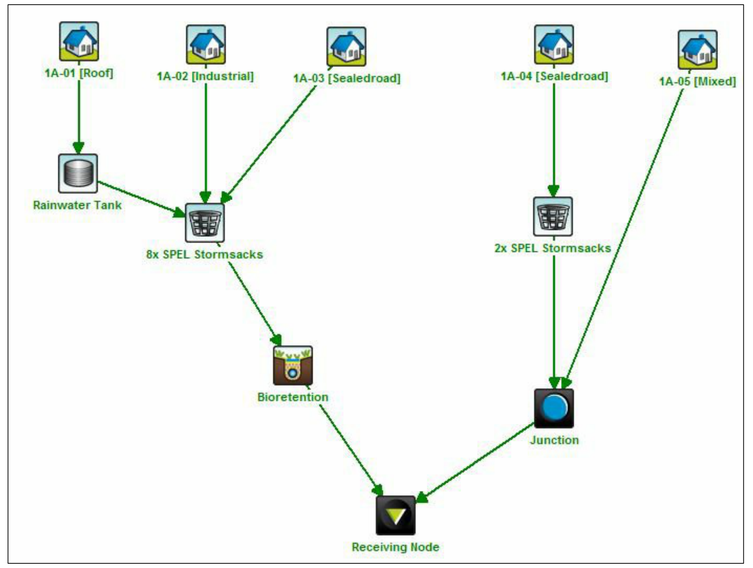
PRINTED: --- USER: RHILLMOOTHA

A1 / A3 LANDSCAPE (A1LC_v02.0.01)

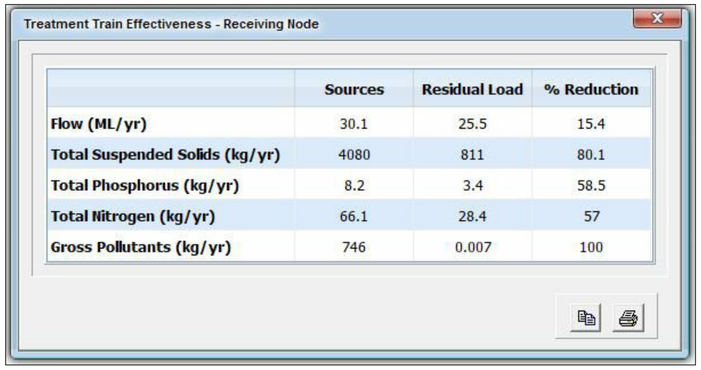


POST-DEVELOPMENT DRAINS CATCHMENT PLAN

SCALE 1:1000



POST-DEVELOPMENT MUSIC MODEL LAYOUT
(P1706121MUS01V03)


Treatment Train Effectiveness - Receiving Node

	Sources	Residual Load	% Reduction
Flow (ML/yr)	30.1	25.5	15.4
Total Suspended Solids (kg/yr)	4080	811	80.1
Total Phosphorus (kg/yr)	8.2	3.4	58.5
Total Nitrogen (kg/yr)	66.1	28.4	57
Gross Pollutants (kg/yr)	746	0.007	100

POST-DEVELOPMENT MUSIC MODEL LAYOUT
(P1706121MUS01V03)

KEY	MUSIC NODE		AREA (ha)	% PAVED
	1A-01		1.68	100%
	1A-02		1.68	100%
	1A-03		0.48	95%
	1A-04		0.1	95%
	1A-05		0.72	0%
		TOTAL AREA	4.65	= 100% OF TOTAL AREA
		TOTAL IMPERVIOUS AREA	3.9	= %84 OF TOTAL AREA
		TOTAL PERVIOUS AREA	0.75	= %16 OF TOTAL AREA

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	MINOR AMENDMENTS	14/08/2020	JS	CG	SA	TH
A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

SCALE
0 10 20 30 40 50 60 70 80 90 100 METRES
A1 (A3) 1:1,000 (1:2,000)

GRID: MGA | DATUM: mAHD | PROJECT MANAGER: TH

CLIENT
AE DESIGN PARTNERSHIP

PROJECT NAME/PLANSET TITLE
PROPOSED COMMERCIAL DEVELOPMENT
CONCEPT CIVIL DESIGN
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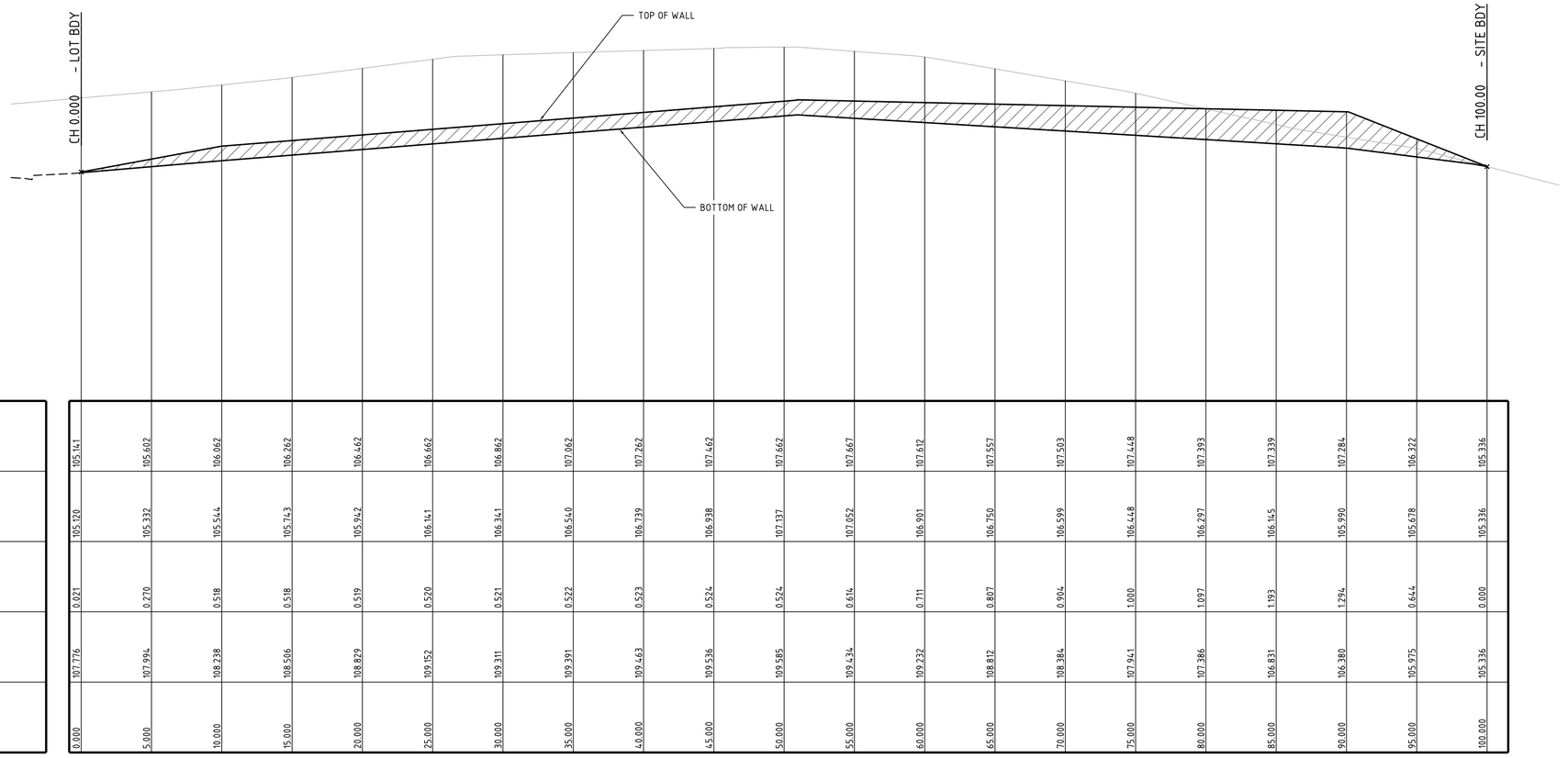
DRAWING TITLE
WATER QUALITY CATCHMENT PLAN, MODEL AND RESULTS

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-E700	B

DRAWING ID: P1706121-PS03-R02-E700



DATUM RL 97.000

TOP OF WALL LEVELS	105.141	105.602	106.062	106.262	106.462	106.662	106.862	107.062	107.262	107.462	107.662	107.667	107.612	107.557	107.503	107.448	107.393	107.339	107.284	106.322	105.336
BOTTOM OF WALL LEVELS	105.120	105.332	105.544	105.743	105.942	106.141	106.341	106.540	106.739	106.938	107.137	107.052	106.901	106.750	106.599	106.448	106.297	106.145	105.990	105.678	105.336
WALL HEIGHT	0.021	0.270	0.518	0.518	0.519	0.520	0.521	0.522	0.523	0.524	0.524	0.614	0.711	0.807	0.904	1.000	1.097	1.193	1.294	0.644	0.000
EXISTING SURFACE LEVELS	107.776	107.994	108.238	108.506	108.829	109.152	109.311	109.391	109.463	109.536	109.585	109.434	109.232	108.812	108.384	107.941	107.386	106.831	106.380	105.975	105.336
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000

RETAINING WALL SECTION D

SCALE: HORIZONTAL - 1:200
VERTICAL - 1:100

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

SCALE
A1 (A3) 1:200 (1:400) 0 2 4 6 8 10 12 14 16 18 20 METRES
A1 (A3) 1:100 (1:200) 0 1 2 3 4 5 6 7 8 9 10 METRES

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH

CLIENT
AE DESIGN PARTNERSHIP

PROJECT NAME/PLANSET TITLE
PROPOSED COMMERCIAL DEVELOPMENT
CONCEPT CIVIL DESIGN
1111-1141 ELIZABETH DRIVE, CECIL PARK, NSW-2573
LOT 2 SECTION 4 DP 2954

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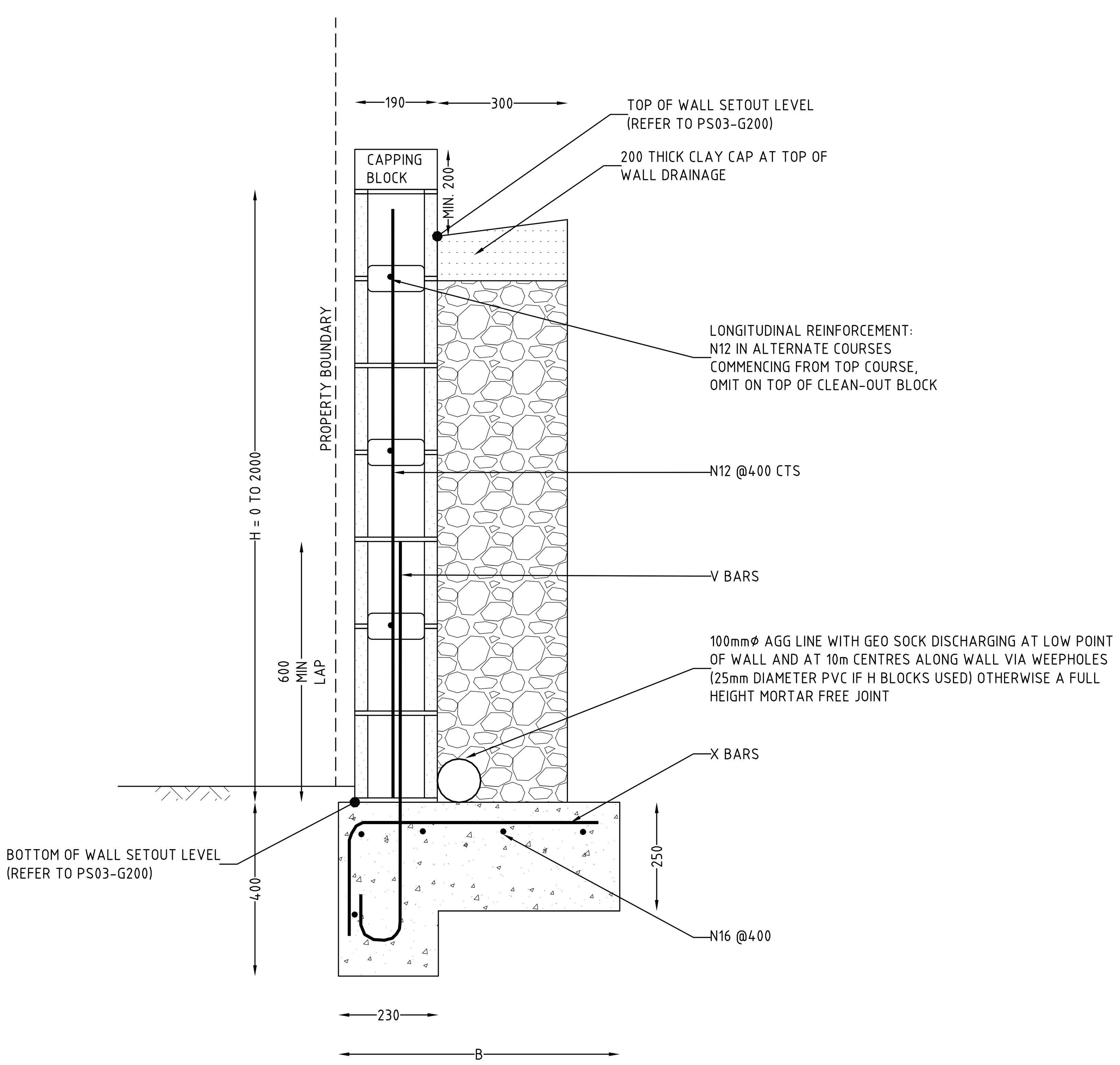
DRAWING TITLE
RETAINING WALL SECTION D

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-G210	A

DRAWING ID: P1706121-PS03-R02-G210

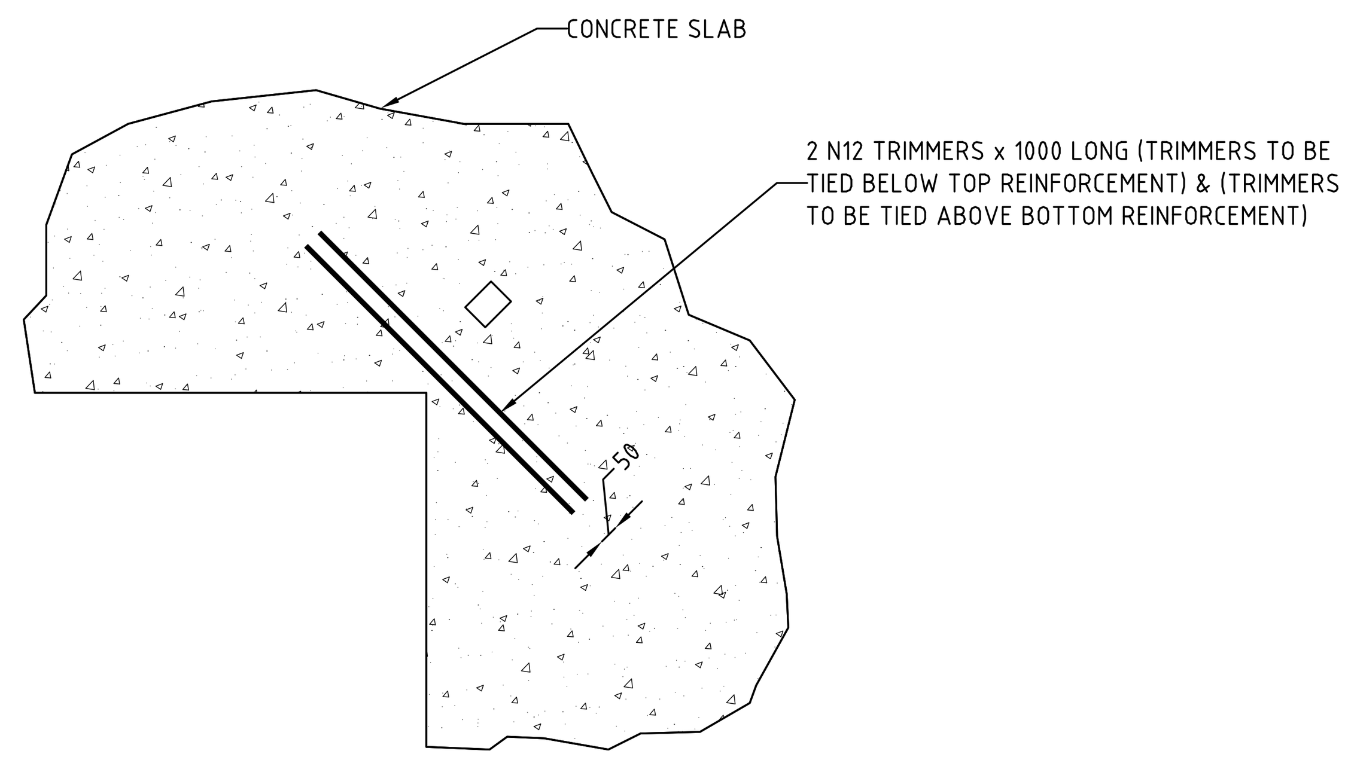
PRINTED ---- USER: PAUL.MURDOCH

A1 / A3 LANDSCAPE (A1LC_v02.0.01)



REINFORCED AND CORE FILLED RETAINING WALLS WITH BASE TYPE 1

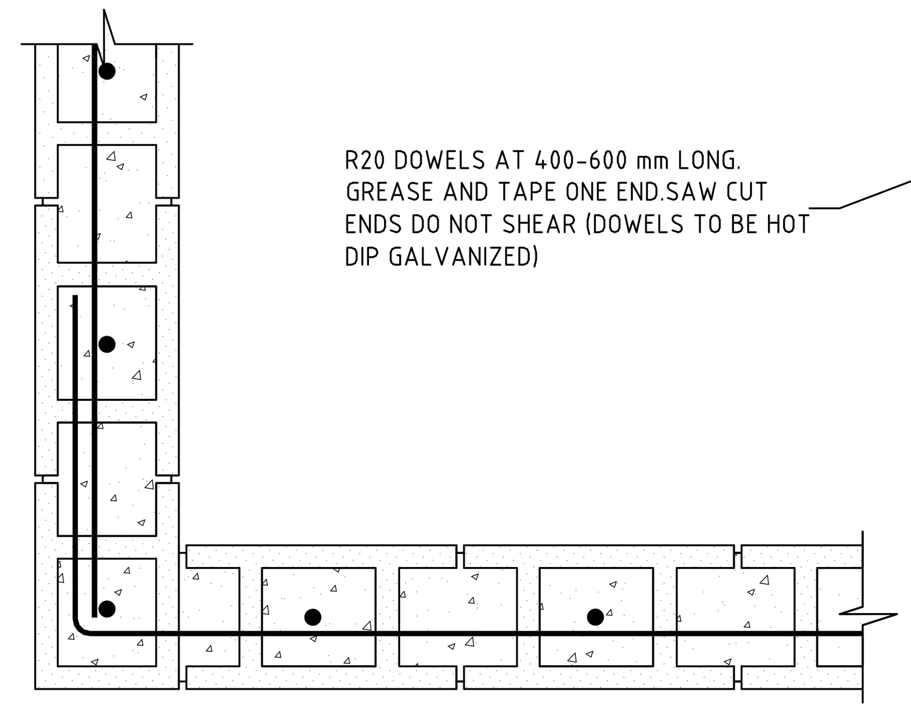
NOT TO SCALE



TYPICAL TRIMMER DETAIL

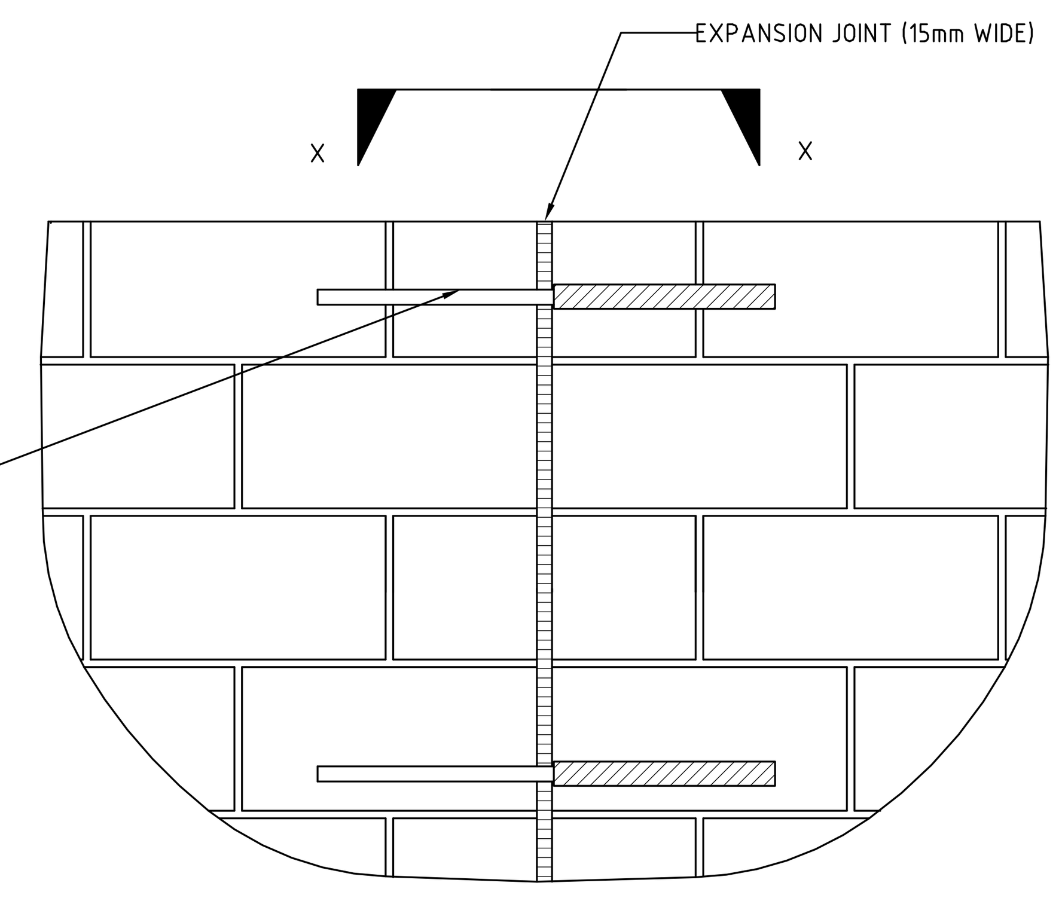
NOT TO SCALE

REINFORCED & CORE FILLED RETAINING WALLS WITH BASE TYPE 1				
WALL HEIGHT		REINFORCEMENTS	BASE DIMENSIONS	
TOTAL HEIGHT (mm) H	HEIGHT OF BLOCKWORK 200 SERIES	X-BARS AND V-BARS	WIDTH, B (mm) WITH THE FOLLOWING BACKFILL CONDITIONS LEVEL	MAX 1 IN 4 SLOPE
800	800	N12 @ 400	800	1000
1000	1000	N12 @ 400	1000	1200
1200	1200	N12 @ 400	1100	1500
1400	1400	N12 @ 400	1300	1700
1600	1600	N16 @ 400	1400	2000
1800	1800	N16 @ 400	1600	2200
2000	2000	N16 @ 200	1700	2500



TYPICAL CORNER DETAIL

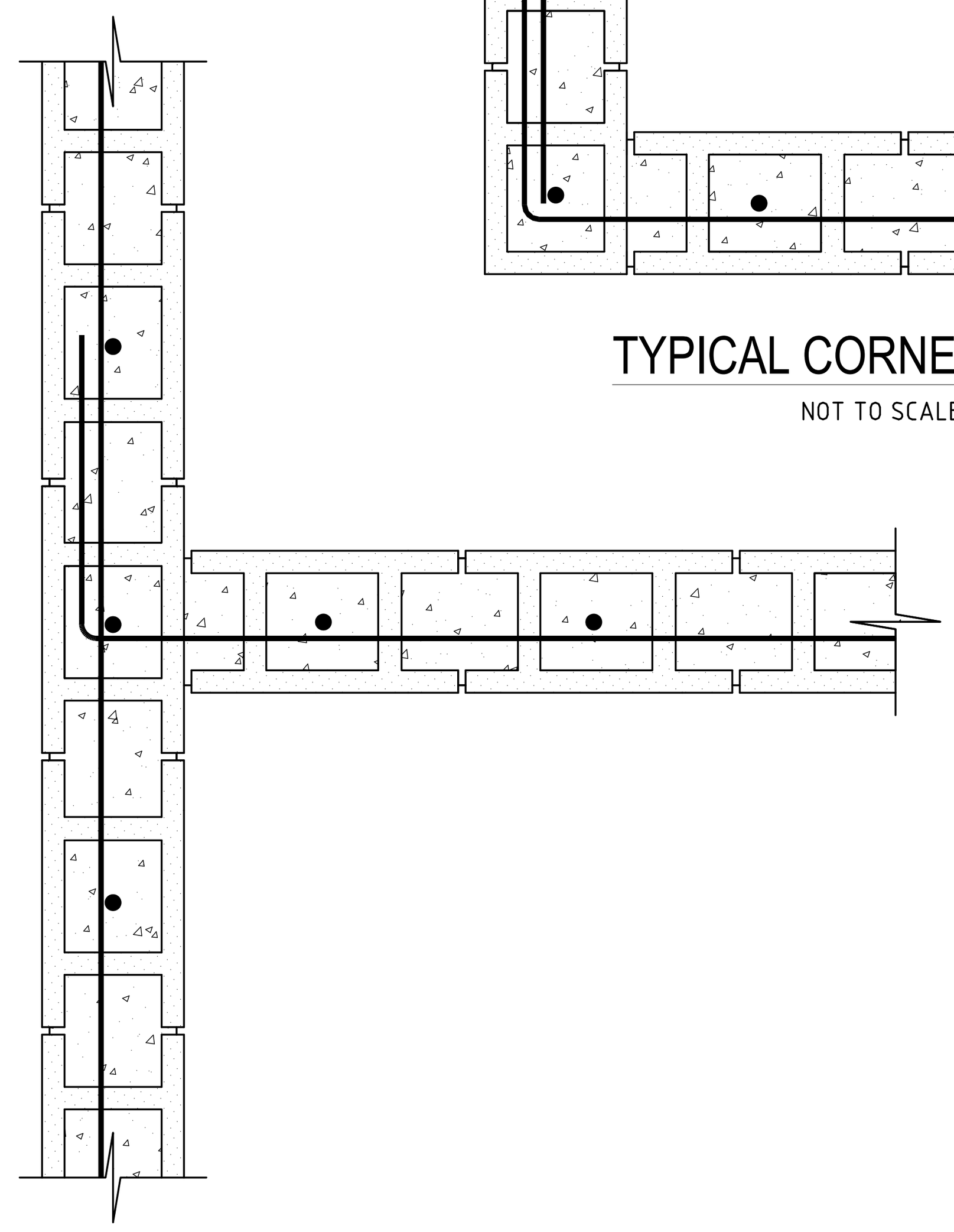
NOT TO SCALE



LOCATE JOINTS AT 6 m MAXIMUM CENTRES
OR IN ACCORDANCE WITH AS 3700

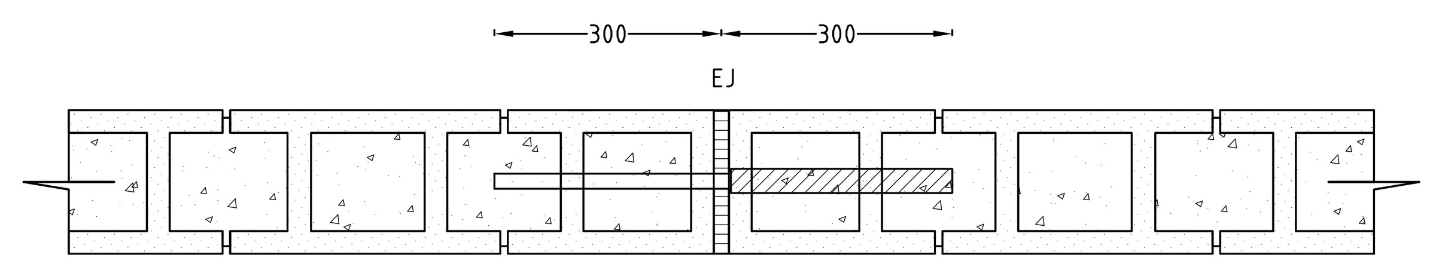
ELEVATION

NOT TO SCALE



TYPICAL 'T' INTERSECTION

NOT TO SCALE



SECTION X-X

TYPICAL EXPANSION

JOINT DETAILS

NOT TO SCALE

NOTES:

1. WALL DESIGN IS BASED ON THE BACKFILL BEING LEVEL AND WITH A MAXIMUM IMPOSED (LIVE) LOADING OF 5kPa BEHIND THE WALL. MAXIMUM SLOPE BEHIND WALL 1V: 4H (MAX).
2. ANY HIGHER LOADINGS (OR ADDITIONAL LOADINGS) PROPOSED FOR THE WALL SYSTEM NEED TO BE ASSESSED AND CERTIFIED BY THE DESIGN ENGINEER PRIOR TO APPLYING LOADS.
3. 20mm CLEAN DRAINAGE AGGREGATE FREE OF FINES TO BE PLACED BEHIND WALLS FOR ENTIRE HEIGHT OF WALL 300mm (MIN) THICKNESS AND WRAPPED WITH GEOTEXTILE (TYPE C), NOT SHOWN ON WALL DETAILS.
4. WALL BACKFILL MUST BE FREE DRAINING MATERIAL WITH A FRICTION ANGLE OF 27 DEGREES (MIN), WHICH COULD BE A TYPE A OR B SOIL IN ACCORDANCE WITH AS 4678 (2002).
5. REFER TO STRUCTURAL ENGINEERS / ARCHITECTURAL DETAILS FOR FENCING AND/OR HANDRAIL DETAILS.

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

SCALE: A1 (A3) 1:10 (1:20) — 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 METRES

GRID: MGA | DATUM: mAHD | PROJECT MANAGER: TH

CLIENT: AE DESIGN PARTNERSHIP

PROJECT NAME/PLANSET TITLE
PROPOSED COMMERCIAL DEVELOPMENT
CONCEPT CIVIL DESIGN
1111-1141 ELIZABETH DRIVE, CECIL PARK, NSW-2573
LOT 2 SECTION 4 DP 2954

martens & Associates Pty Ltd
Consulting Engineers
Environment
Water
Geotechnical
Civil
Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767
Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE: CONCEPT RETAINING WALL DETAILS

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-G220	A

DRAWING ID: P1706121-PS03-R02-G220

A1 / A3 LANDSCAPE (A1LC_v02.0.01)

PAVEMENT DETAILS

KEY	TYPE	LAYER	THICKNESS (mm)	MATERIALS
	TYPE A	WEARING COURSE	50	PRIMER + 30mm THICK ASPHALTIC CONCRETE (AC14) LAYER + 20mm THICK ASPHALTIC CONCRETE (AC10)
		BASE	150	DGB20
		SUB-BASE	100	DGS40
	TYPE B	CONCRETE FOOTPATH	75mm CONCRETE. THICKNESS TO BE INCREASED TO 125mm AT PROPERTY ENTERANCES AND SL72 TO BE PLACED FOR THE WIDTH OF LAYBACKS.	
	TYPE C	CONCRETE CYCLEWAY	125mm CONCRETE WITH SL72 REINFORCING MESH ON 100mm OF COMPACTED ROAD BASE.	
	TYPE D	KERB RAMP	125mm CONCRETE WITH SL72 REINFORCING MESH ON 100mm OF COMPACTED ROAD BASE.	

NOTES:
- PAVEMENT DETAILS TO BE CONFIRMED AT DETAILED DESIGN STAGE.
- PAVEMENT DETAILS BASED ON ASSUMED CBR VALUE OF 15. CBR VALUE TO BE CONFIRMED AT DETAILED DESIGN STAGE.
- PAVEMENT DETAILS BASED ON FAIRFIELD CITY COUNCIL'S 'SPECIFICATION FOR ROADWORKS AND DRAINAGE ASSOCIATED WITH SUBDIVISION OR OTHER DEVELOPMENT' AND AUSTROADS 'GUIDE TO PAVEMENT TECHNOLOGY PART 2: PAVEMENT STRUCTURAL DESIGN' FIGURE 8.4.

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	**MINOR AMENDMENTS**	**14/08/2020**	**JS**	**CG**	**SA**	**TH**
A	INITIAL RELEASE	06/08/2020	JS/GM	CG/AVG	SA	TH

SCALE: 0 5 10 15 20 25 30 35 40 45 50 METRES — A1 (A3) 1:500 (1:1,000)

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH

CLIENT: AE DESIGN PARTNERSHIP

PROJECT NAME/PLANSET TITLE: PROPOSED COMMERCIAL DEVELOPMENT
CONCEPT CIVIL DESIGN
1111-1141 ELIZABETH DRIVE, CECIL PARK, NSW-2573
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DRAWING TITLE: PAVEMENT PLAN

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1706121	PS03	R02	PS03-G400	B