

PROPOSED WHISKY STORAGE BUILDINGS

CAPE BYRON DISTILLERY

LOT 5 DP 594645 at 80 St HELENA ROAD, McLEODS SHOOT , NSW 2478

BYRON SHIRE COUNCIL - DEVELOPMENT APPLICATION

CIVIL WORKS DRAWINGS FOR

EARTHWORKS, PAVEMENTS & STORMWATER DRAINAGE

SCHEDULE OF CIVIL WORKS DRAWINGS:

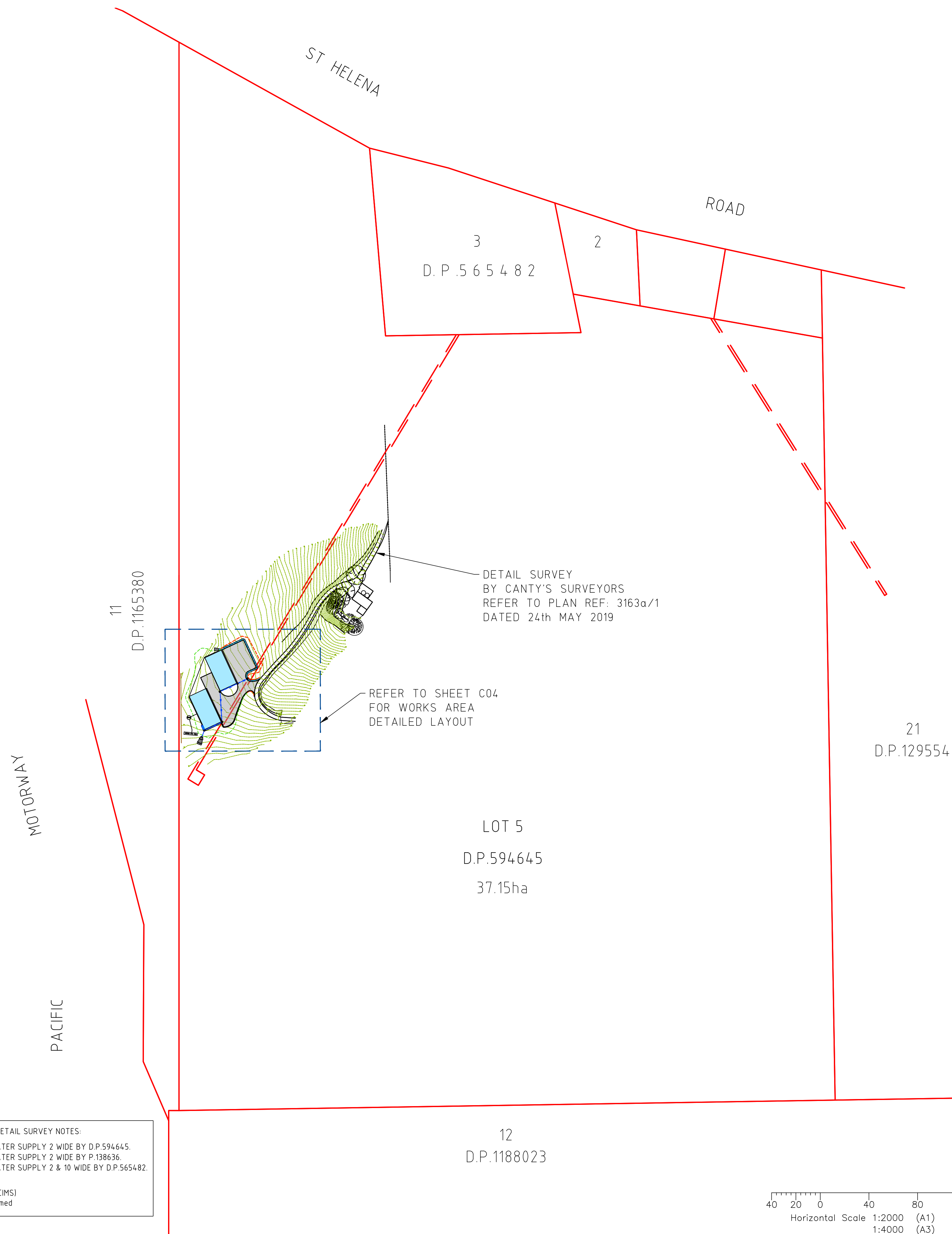
GENERAL PLANS:




- C01 COVER SHEET & LOCALITY
- C02 SITE LAYOUT PLAN
- C03 TYPICAL SECTIONS & DETAILS
- C04 DETAIL PLAN
- C05 STORMWATER LONGITUDINAL SECTIONS
- C06 STORMWATER COMPUTATIONS
- C07 EARTHWORKS CUT TO FILL PLAN
- C08 EROSION & SEDIMENTATION CONTROL PLAN



LOCALITY PLAN
N.T.S.

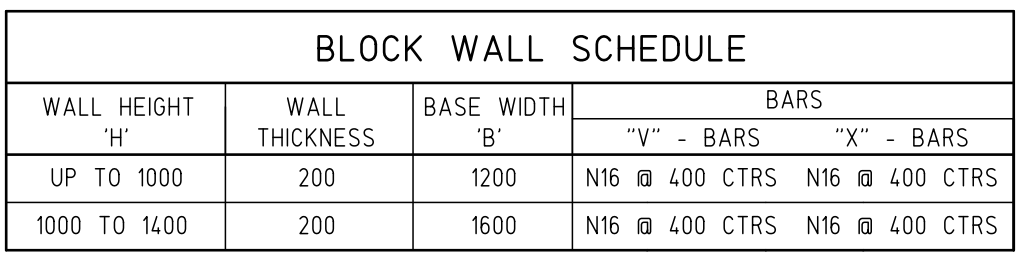
		DESIGN: T.RYDEN	DATE: 31.01.2020	<div>MANAGE-DESIGN-ENGINEER</div> <div>PTY LTD</div> <div>PROJECT MANAGEMENT-CIVIL ENGINEERING-DESIGN-SURVEYING</div> <div>SUITE 1, 64 BALLINA STREET, LENNOX HEAD NSW 2478</div> <div>PO Box 44 LENNOX HEAD NSW 2478</div> <div>www.md-engineer.com.au</div> <div>ABN: 88 607 109 357</div> <div>M-D-E</div>	<div>COPYRIGHT</div> <div>MANAGE-DESIGN-ENGINEER PTY LTD RESERVE THE RIGHT TO THE DESIGN AND DOCUMENTATION OF THE WORK CONTAINED ON THIS DRAWING. THIS WORK IS COVERED BY COPYRIGHT AND CANNOT BE REPRODUCED OR COPIED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF MANAGE-DESIGN-ENGINEER PTY LTD. ANY LICENSE, EXPRESSED OR IMPLIED, TO THE USE OF THIS DOCUMENT IS RESTRICTED TO THE TERMS OF AGREEMENT BETWEEN THE CLIENT NOTED ON THIS DRAWING AND MANAGE-DESIGN-ENGINEER PTY LTD</div>	CLIENT AGS COMMERCIAL	PROJECT CAPE BYRON DISTILLERY LOT 5 DP 594645 80 St HELENA ROAD McLEODS SHOOT, NSW 2479	CIVIL PLAN		
		DRAWN: T.RYDEN	SCALE: AS SHOWN					DRAWING TITLE: COVER SHEET & LOCALITY		
		SURVEYING: CANTY'S SURVEYORS	SHEET SIZE: A1					DWG No: C01	SHEET: 1 OF 8	REV: 0
0 ISSUED FOR COUNCIL APPROVAL - DEVELOPMENT APPLICATION		DATE: 31.01.2020								
ISSUE	DESCRIPTION	DATE	MDE DESIGN APPROVAL :							



 LOT BOUNDARY
 PROPOSED NEW HARDSTAND GRAVEL PAVEMENT
 PROPOSED NEW STRUCTURES
 PROPOSED NEW STORMWATER DRAINAGE LINE

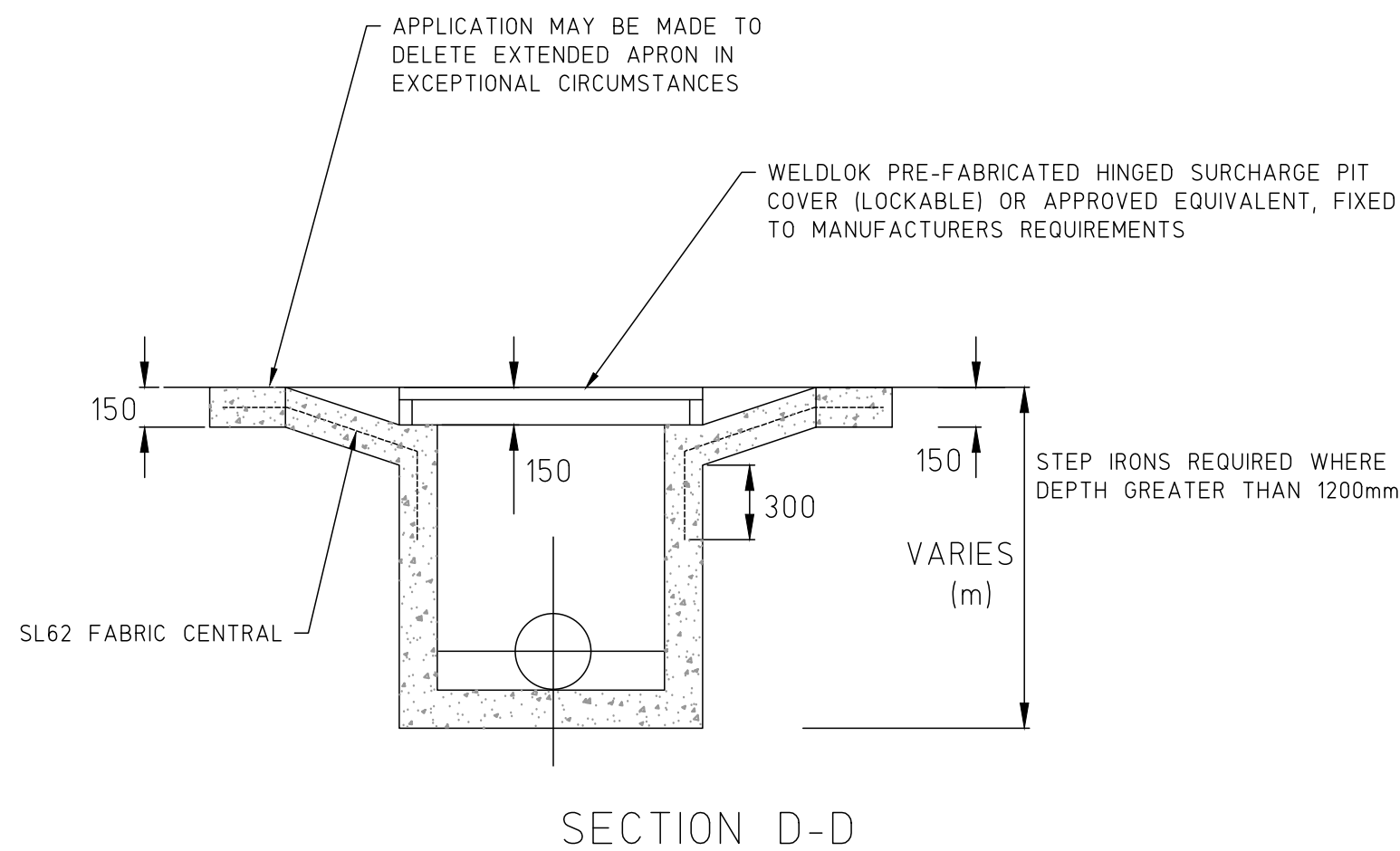
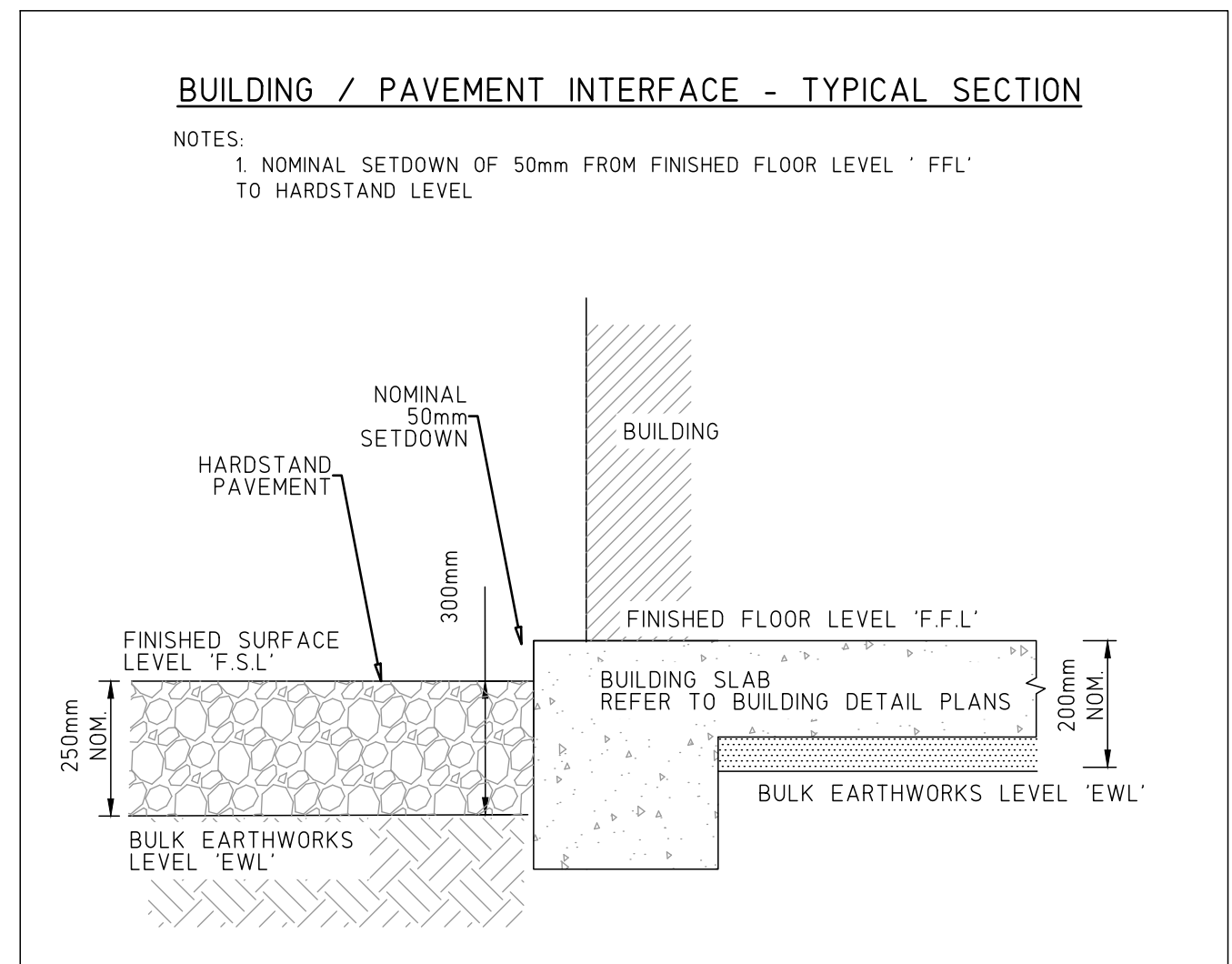
PLANS TO BE
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		DRAWN:	T.RYDEN	SCALE:	AS SHOWN		TITLE	PROPOSED WHISKY STORAGE BUILDINGS	LOT 5 DP 594645				
		SURVEYING:	CANTY'S SURVEYORS	SHEET SIZE:	A1				80 St HELENA ROAD				
									McLEODS SHOOT, NSW 2479				
0	ISSUED FOR COUNCIL APPROVAL - DEVELOPMENT APPLICATION			31.01.2020									
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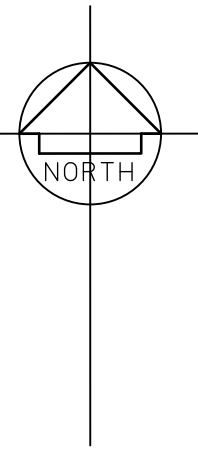


STORMWATER NOTES

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		DRAWN: T.RYDEN	SCALE: AS SHOWN		TITLE PROPOSED WHISKY STORAGE BUILDINGS	DWG No: C03	SHEET: 3 OF 8	REV: 0		
		SURVEYING: CANTY'S SURVEYORS	SHEET SIZE: A1							
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SURVEYING:	CANTY'S SURVEYORS	SHEET SIZE:	A1
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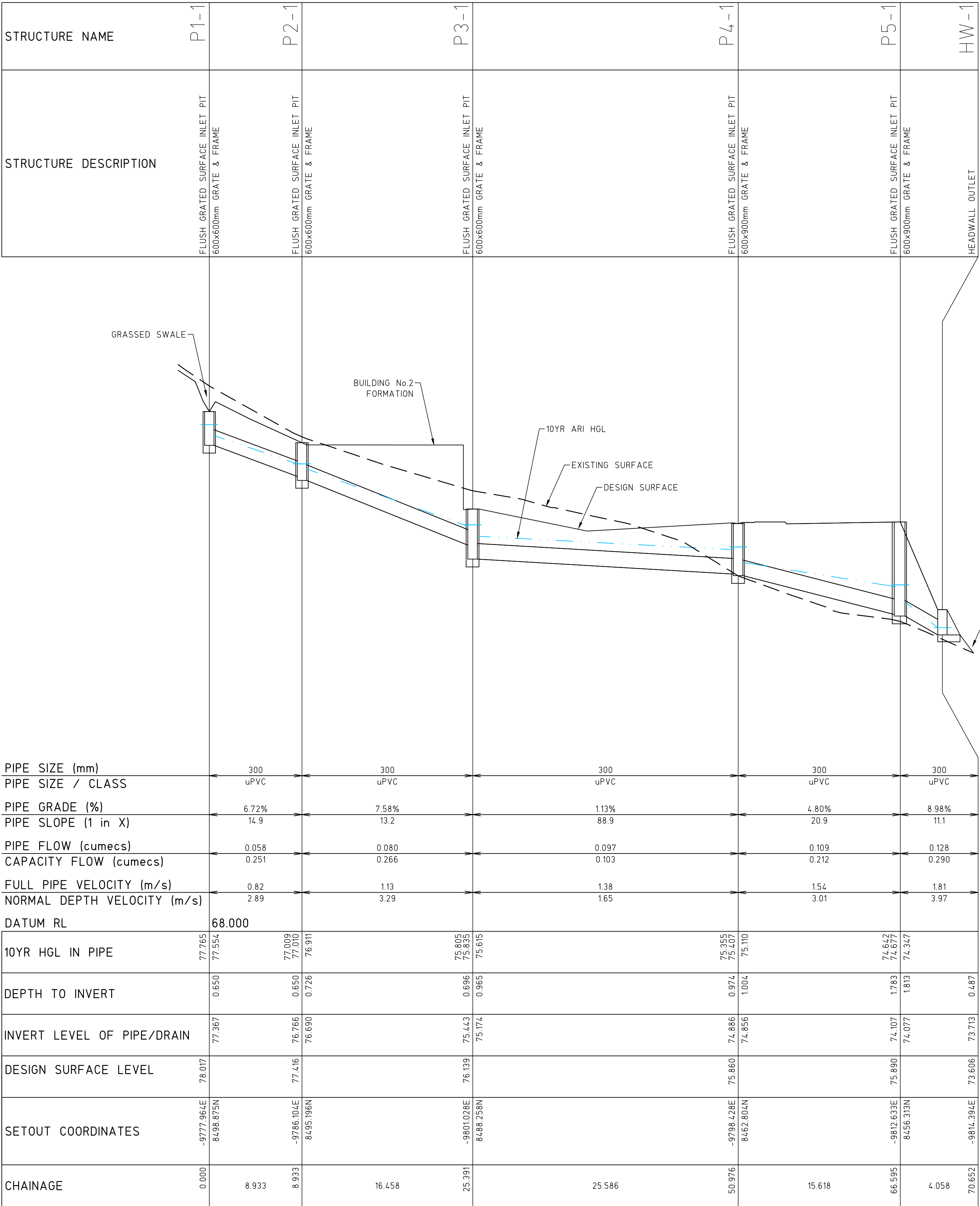
TITLE
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STORAGE BUILDINGS

CAPE BYRON DISTILLERY
LOT 5 DP 594645
80 St HELENA ROAD
McLEODS SHOOT, NSW 2479

CIVIL PLAN

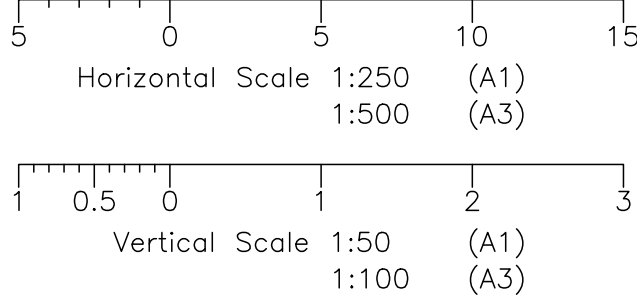
DETAIL PLAN

SHEET: 4 OF 8 RE



LINE

1

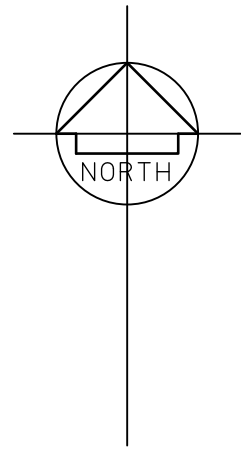


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		DRAWN: T.RYDEN		SCALE: AS SHOWN						DRAWING TITLE: STORMWATER LONGITUDINAL SECTIONS					
		SURVEYING: CANTY'S SURVEYORS		SHEET SIZE: A1						TITLE PROPOSED WHISKY STORAGE BUILDINGS					
0		ISSUED FOR COUNCIL APPROVAL - DEVELOPMENT APPLICATION		31.01.2020								DWG No: C05		SHEET: 5 OF 8	
ISSUE	DESCRIPTION			DATE			MDE DESIGN APPROVAL :								

MODEL - HYDRAULIC DESIGN SHEET																												
Project:		AGS CAPE BYRON																										
Drainage Model:		Drainage Design																										
Rainfall File:		AUS NSW BYRON.12dhydro																										
Rainfall Method:		IFD Table																										
Pipe Cover Limit:		0.2 m																										
Manning n Roughness:		0.013																										
Freeboard Limit:		0.15 m																										
Minor 10 Year Storm Event																												
Pipe	Pipe	Pipe	Pipe	Full Pipe	Pipe	Full-area	Full-area	Full-area	Full-area	Pipe	Capacity	Q/Qcap	Full Pipe	Norm Depth	Crit Depth	Pipe	Pipe	Cover	US Pit	US Pit	Pipe	P'head Loss	WSE Loss	Pipe	Pipe	Pipe	HGL	F'board
ID	Type	Length	Size	Area Af	Grade	Tct	I	Sum CA	Qc=CI/A	Flow Q	Flow Qcap	Ratio	Vel Vf=Q/Af	Vel Vn=Q/An	Vel Vc=Q/Ac	US IL	DS IL	Min	Ku	Kw	V'head	(Ku.V'head)	(Kw.V'head)	T'head Loss	US HGL	DS HGL	Grade	US
(-)	(-)	(m)	(mm)	(sq.m)	(%)	(min)	(mm/hr)	(ha)	(L/s)	(L/s)	(L/s)	(-)	(m/s)	(m/s)	(m/s)	(m)	(m)	(m)	(-)	(-)	(m)	(m)	(m)	(m)	(m)	(m)	(%)	(m)
P1-1 to P2-1	uPVC	8.93	300	0.071	6.72	8.68	160.60	0.1302	58.1	58.1	250.8	0.23	0.82	2.89	1.25	77.37	76.77	0.39	6.11		0.03	0.21		0.58	77.55	77.01	6.11	0.25
P2-1 to P3-1	uPVC	16.46	300	0.071	7.58	8.75	160.06	0.1801	80.1	80.1	266.3	0.30	1.13	3.29	1.44	76.69	75.44	0.35	1.50	1.51	0.07	0.10	0.10	1.15	76.91	75.80	6.72	0.41
P3-1 to P4-1	uPVC	25.59	300	0.071	1.13	8.89	159.06	0.2206	97.5	97.5	102.6	0.95	1.38	1.65	1.59	75.17	74.89	0.36	1.96	2.27	0.10	0.19	0.22	0.26	75.61	75.35	1.01	0.30
P4-1 to P5-1	uPVC	15.62	300	0.071	4.80	9.10	157.52	0.2471	108.1	108.6	211.8	0.51	1.54	3.01	1.70	74.86	74.11	0.72	2.04	2.47	0.12	0.24	0.30	0.50	75.11	74.64	3.00	0.45
P5-1 to P6-1	uPVC	4.06	300	0.071	8.98	9.23	156.57	0.2876	125.1	128.1	289.8	0.44	1.81	3.97	1.91	74.08	73.71	-0.15	1.76	1.97	0.17	0.30	0.33	0.00	74.35	73.85	12.19	1.21

120 MODEL - HYDRAULIC DESIGN SHEET																														
Project:		AGS CAPE BYRON																												
Drainage Model:		Drainage Design																												
Rainfall File:		AUS NSW BYRON.12dhydro																												
Rainfall Method:		IFD Table																												
Pipe Cover Limit:		0.2 m																												
Manning n Roughness:		0.013																												
Freeboard Limit:		0.15 m																												
Major 100 Year Storm Event																														
Pipe ID	Pipe Type	Pipe Length (m)	Pipe Size (mm)	Full Pipe Area Af (sq.m)	Pipe Grade (%)	Full-area Tct (min)	Full-area I (mm/hr)	Full-area Sum CA (ha)	Full-area Qc=CIa (l/s)	Peak Flow Qrat (l/s)	Net Bypass Flow Qb (l/s)	Pipe Flow Q (l/s)	Capacity Flow Qcap (l/s)	Q/Qcap Ratio (-)	Full Pipe Vel Vf=Q/Af (m/s)	Norm Depth Vel Vn=Q/An (m/s)	Crit Depth Vel Vc=Q/Ac (m/s)	Pipe US IL (m)	Pipe DS IL (m)	US Pit Ku (-)	US Pit Kw (-)	Pipe V'head (m)	P'head Loss (Ku.V'head) (m)	WSE Loss (Kw.V'head) (m)	Pipe T'head Loss (m)	Pipe US HGL (m)	Pipe DS HGL (m)	HGL Grade (%)	F'board US (m)	
P1-1 to P2-1	uPVC	8.93	300	0.071	6.72	7.29	248.16	0.1302	89.8	89.8		89.8	250.8	0.36	1.27	3.25	1.52	77.37	76.77	4.38		0.08	0.36			0.47	77.60	77.17	4.82	0.06
P2-1 to P3-1	uPVC	16.46	300	0.071	7.58	7.36	247.31	0.1801	123.7	123.7		123.7	266.3	0.46	1.75	3.70	1.86	76.69	75.44	1.36	1.37	0.16	0.21	0.21	0.84	76.96	76.14	4.97	0.25	
P3-1 to P4-1	uPVC	25.59	300	0.071	1.13	7.50	245.73	0.2206	150.6	150.6	-54.6	96.0	102.6	0.94	1.36	1.65	1.58	75.17	74.89	1.80	2.11	0.09	0.17	0.20	0.25	75.90	75.65	0.98	0.04	
P4-1 to P5-1	uPVC	15.62	300	0.071	4.80	7.71	243.28	0.2471	167.0	167.0	-27.9	139.1	211.8	0.66	1.97	3.20	2.04	74.86	74.11	1.83	1.97	0.20	0.36	0.39	0.32	75.29	74.96	2.07	0.18	
P5-1 to P6-1	uPVC	4.06	300	0.071	8.98	7.85	241.78	0.2876	193.2	195.1		195.1	289.8	0.67	2.76	4.40	2.78	74.08	73.71	1.53	1.65	0.39	0.59	0.64	0.00	74.37	73.89	11.76	0.88	

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		DRAWN: T.RYDEN	SCALE: AS SHOWN				TITLE		PROPOSED WHISKY STORAGE BUILDINGS	DRAWING TITLE: STORMWATER COMPUTATIONS
		CANTY'S SURVEYORS	SHEET SIZE: A1							
0	ISSUED FOR COUNCIL APPROVAL - DEVELOPMENT APPLICATION	31.01.2020								
ISSUE	DESCRIPTION	DATE		MDE DESIGN APPROVAL :						



FILL BATTER AT 1in2.5 SLOPE
SUBJECT TO GEOTECHNICAL
REPORTING AND ADVICE

877.41

FENCE
WIRE
&
POST
TIMBER

SEW

SEWER ETA BED

BUILDING No.1
FFL=75.900
EWL=75.700

BUILDING No.2
FFL=77.400
EWL=77.200

GRAVEL
HARDSTAND
AREA

GRAVEL
HARDSTAND
AREA

FILL BATTER AT 1in3 SLOPE
SUBJECT TO GEOTECHNICAL
REPORTING AND ADVICE

CUT BATTER AT 1in2 SLOPE
SUBJECT TO GEOTECHNICAL
REPORTING AND ADVICE

PRELIMINARY CUT TO FILL VOLUMES:

EARTHWORKS VOLUMES FROM NOMINAL STRIPPED SURFACE TO DESIGN
EARTHWORKS SUBGRADE LEVELS.

AREA OF PROPOSED WORKS = 3,435m²

NOMINAL TOPSOIL DEPTH = 100mm

TOPSOIL STRIPPED TO STOCKPILE FOR RE-USE = 344m³

NOTE:

EARTHWORK SUBGRADE MODEL INCLUDES,

- SUBGRADE IN NEW GRAVEL PAVEMENT AREAS = 250mm DEPTH
- SUBGRADE UNDER BUILDINGS ASSUME SLAB = 200mm DEPTH
(REFER TO EARTHWORKS LEVEL 'EWL')

CUT = 955m³
FILL = 950m³
BALANCE = 5m³ TO STOCKPILE

AREA OF GRAVEL PAVEMENT = 1,330m²

EARTHWORKS NOTES:

- E1 The contractor shall review the Geotechnical Report. Remove all topsoil, organic matter rubble, uncontrolled fill, unsuitable material at the direction of the Geotechnical Engineer. All materials stockpiles and all earthwork areas shall have sediment and erosion control measures installed in accordance with the "Blue Book" (Managing, Urban Stormwater Soils and Construction, produced by Landcom). Any surplus excavated topsoil shall be removed from site and disposed of in accordance with EPA guidelines.
- E2 Proof roll all exposed natural sub-grade for building platforms, paved areas, areas to be filled, or cut batters in the presence of a suitably Qualified Geotechnical Engineer who will certify the works.
- E3 Allow for excavation in all materials as found U.N.O. Any surplus excavated material shall be removed from site and disposed of in accordance with EPA guidelines.
- E4 Ensure that there is continuity of compaction between building platforms in both cut and fill areas.
- E5 Testing of the sub-grade shall be carried out by an approved N.A.T.A. registered laboratory and in accordance with AS3798. Where the fill is to provide support to building floor slab, level 1 testing procedures (in accordance with AS3798) shall be followed, otherwise level 2 testing shall be undertaken.
- E6 The contractor shall allow in their price for all costs associated with geotechnical testing during construction works.
- E7 U.N.O. Provide suitable compaction equipment to achieve specified standards. Refer to geotechnical engineering report for site sub-grade preparation guidelines. All fill materials shall be placed in maximum 200mm thick layers and compacted at optimum moisture content (+/-2%) to achieve the following standards:
- | | |
|---|---------------|
| * Service trenches (not under pavements) | 95% standard |
| * Service trenches under pavements | 100% standard |
| * Top 600mm to subgrade level under paved areas | 100% standard |
| * Landscaped and general areas | 95% standard |
- Pavement:
- | | |
|------------------|--------------|
| * Base Layer | 98% modified |
| * Sub-Base Layer | 98% modified |
- Testing of placed fill shall be at the direction of the geotechnical engineer and suitable for the works to be certified as completed.
- E8 Provide to the superintendent all necessary test certificates and certifications for all earthworks and pavement preparations.
- E9 Ensure that all earthworks areas are free draining and do not pond water. Provide temporary drainage or sump pumping as required until sufficient site stormwater drainage has been installed.

EARTHWORKS LEGEND

- 76.5— DESIGN FSL CONTOURS 0.2m INTERVAL
- 79--- NATURAL SURFACE CONTOURS 0.5m INTERVAL
- | |
|-----------------------|
| CUT 1.5 - 2.0m DEPTH |
| CUT 1.0 - 1.5m DEPTH |
| CUT 0.5 - 1.0m DEPTH |
| CUT 0.0 - 0.5m DEPTH |
| FILL 0.0 - 0.5m DEPTH |
| FILL 0.5 - 1.0m DEPTH |
| FILL 1.0 - 1.5m DEPTH |
| FILL 1.5 - 2.0m DEPTH |
- LOT BOUNDARY
- PROPOSED CONCRETE PAVEMENT & PATHWAYS
- EXISTING STRUCTURE
- PROPOSED NEW DRAINAGE LINE

5 0 5 10
Horizontal Scale 1:200 (A1)
1:400 (A3)

NOT FOR CONSTRUCTION

PLANS TO BE
PRINTED IN COLOUR

	DESIGN	T.RYDEN	DATE:	31.01.2020
	DRAWN	T.RYDEN	SCALE:	AS SHOWN
	SURVEYING	CANTY'S SURVEYORS	SHEET SIZE:	A1
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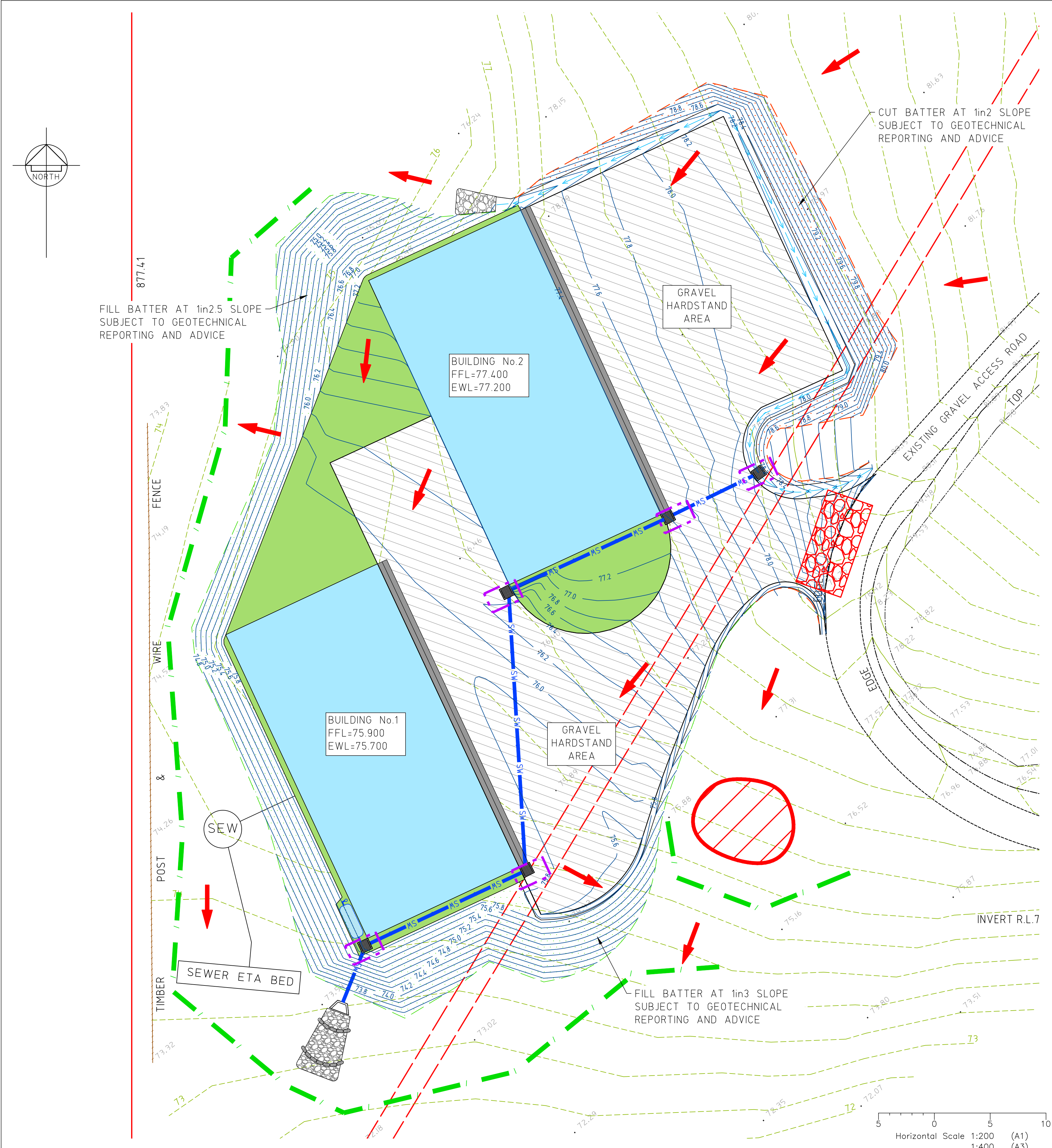
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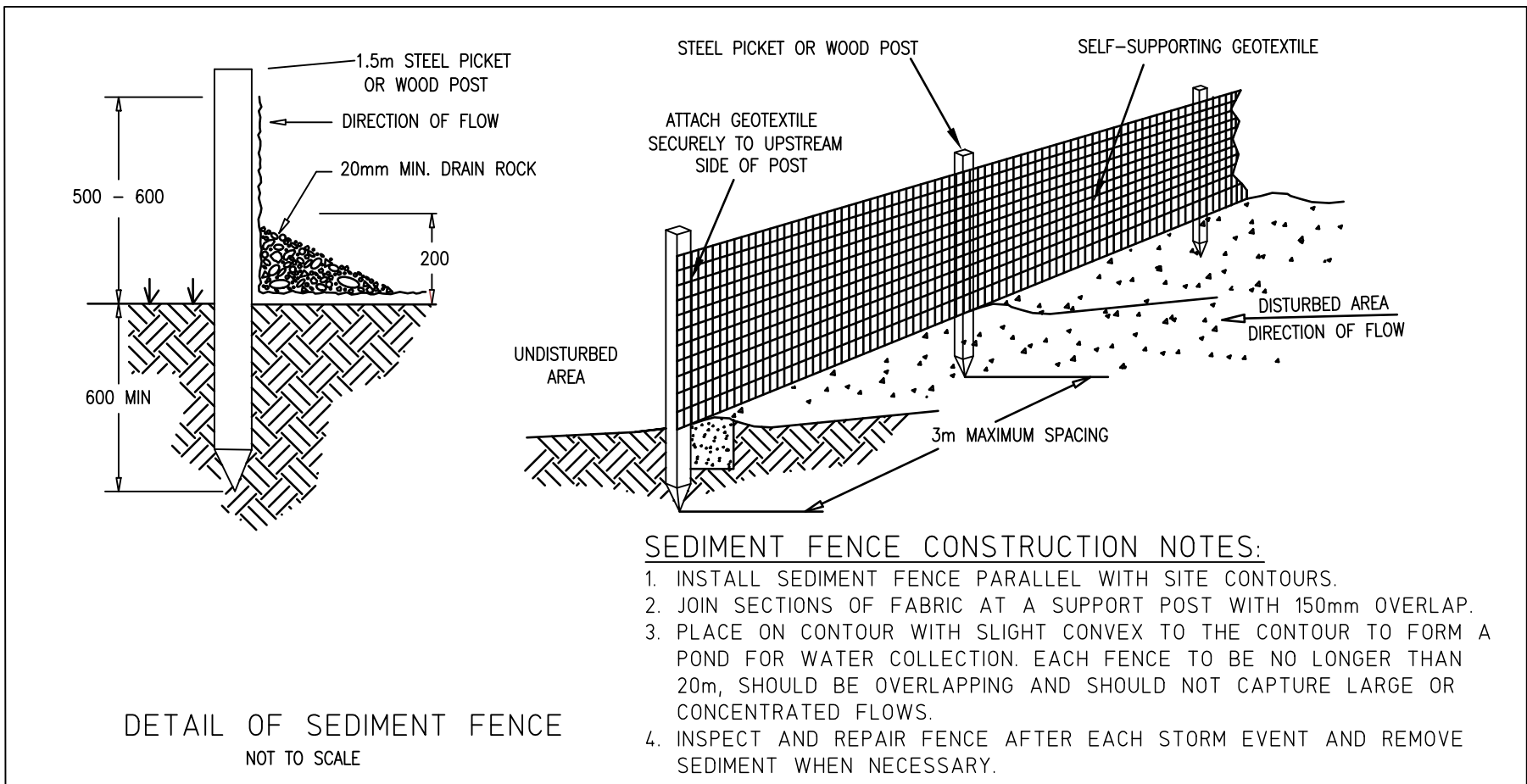
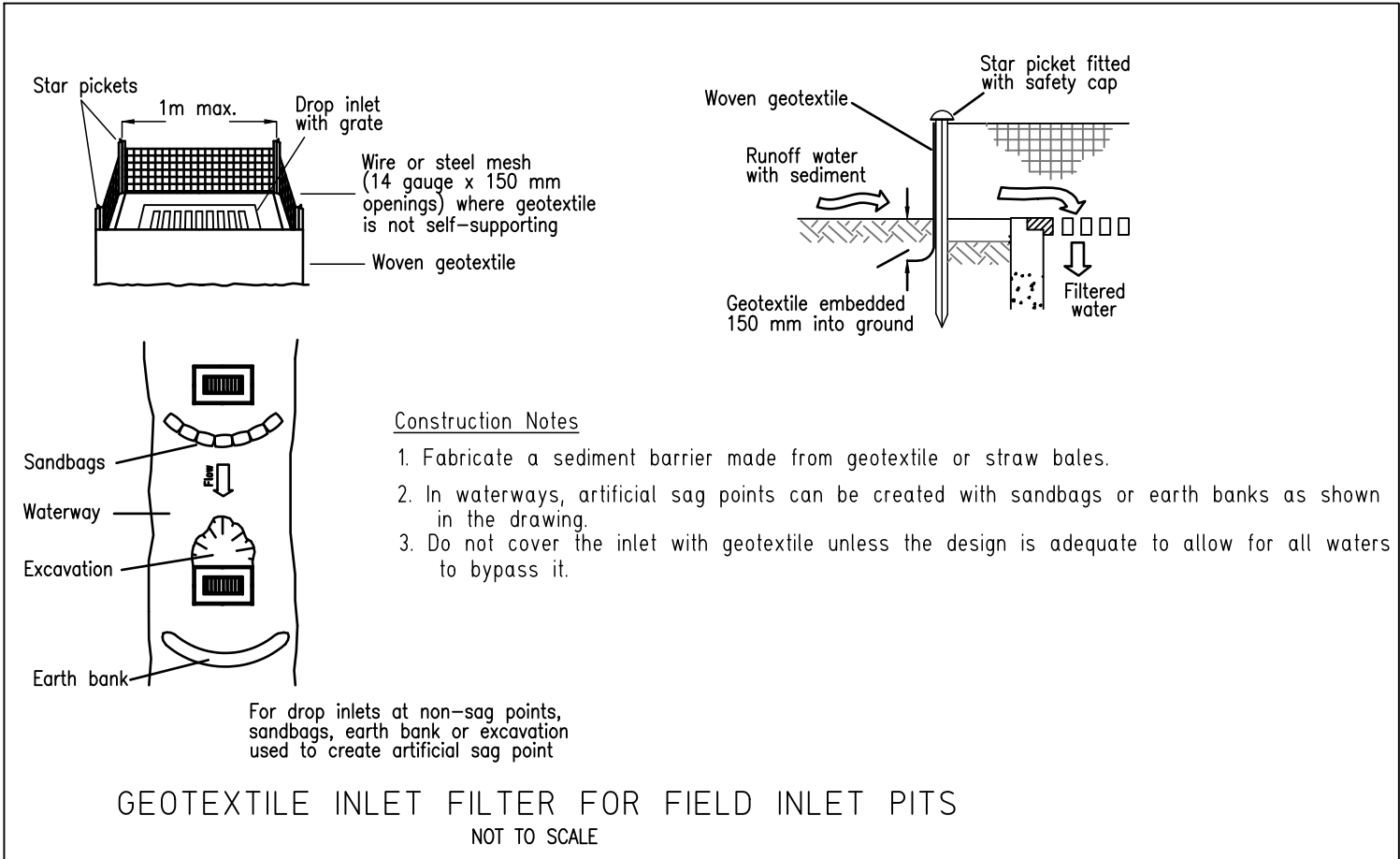
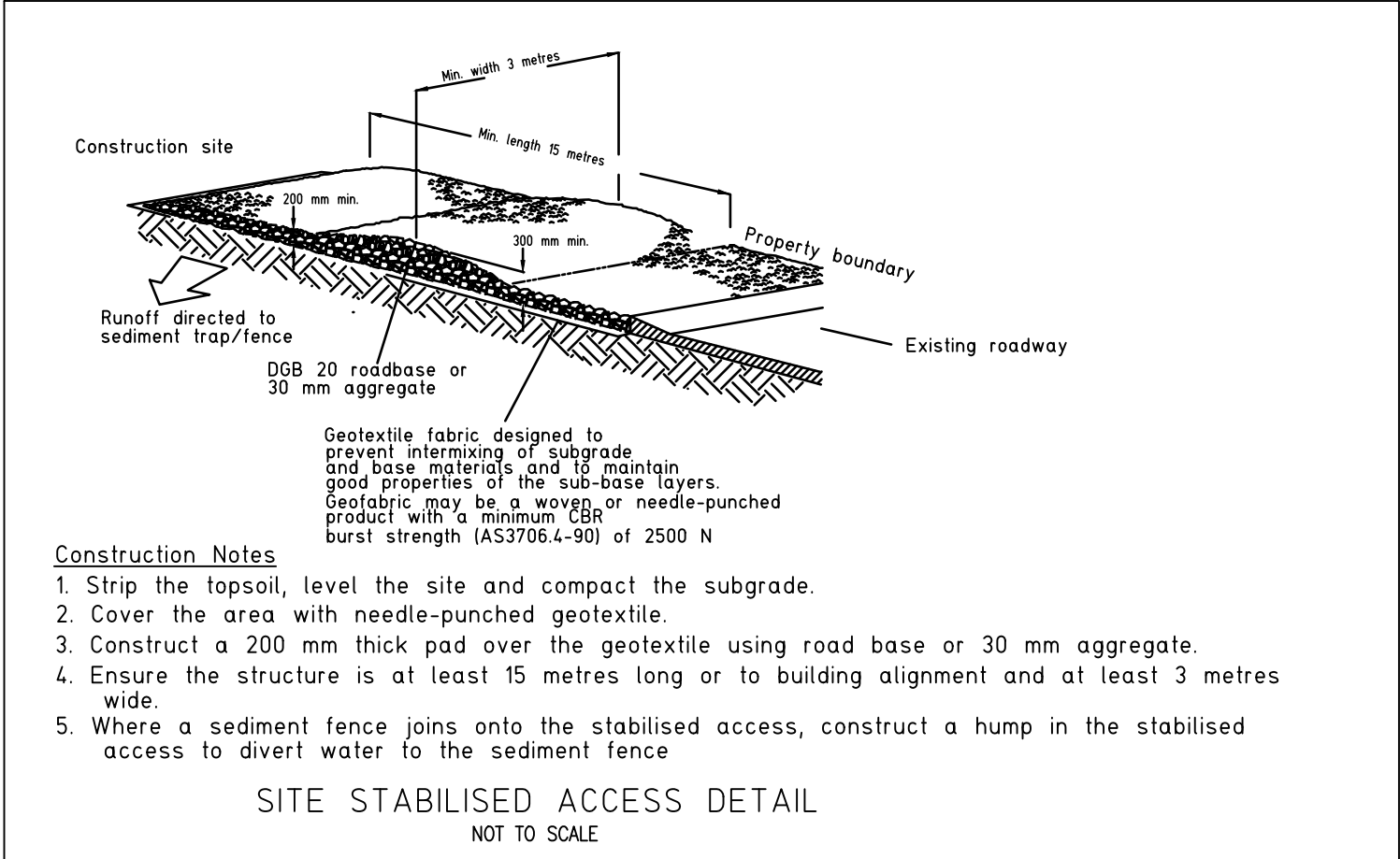
CLIENT AGS COMMERCIAL
TITLE PROPOSED WHISKY STORAGE BUILDINGS

PROJECT CAPE BYRON DISTILLERY LOT 5 DP 594645 80 St HELENA ROAD McLEODS SHOOT, NSW 2479

<u>CIVIL PLAN</u>			
DRAWING TITLE: EARTHWORKS CUT TO FILL PLAN			
DWG No:	C07	SHEET: 7 OF 8	REV: 0



PLANS TO BE PRINTED IN COLOUR



- LEGEND**
- SEDIMENT FENCE
 - FLOW DIRECTION
 - NATURAL SURFACE CONTOURS 0.5m INTERVAL
 - DESIGN FSL CONTOURS 0.2m INTERVAL
 - SUGGESTED STOCKPILE SITE
 - TEMPORARY CONSTRUCTION ENTRY / EXIT
 - INLET FILTER - SURFACE INLET DRAINAGE PIT

NOT FOR CONSTRUCTION

- EROSION & SEDIMENT CONTROL NOTES:**
- SOIL STOCKPILES TO BE NO HIGHER THAN 2.0 METRES (10m PREFERABLE) IN LOCATIONS DIRECTED BY THE SUPERINTENDENT.
 - CONSTRUCT SEDIMENT FENCE AT LOCATIONS SHOWN AND AS DIRECTED BY SITE SUPERINTENDENT. SEDIMENT FENCE OR EQUIVALENT TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH COUNCIL'S ENGINEERING REQUIREMENTS.
 - UPON COMPLETION OF FINAL EARTHWORKS OR AFTER WRITTEN DIRECTION OF COUNCIL, IMMEDIATE SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF IN 14 DAYS.
 - ALL PERIMETER AND SILTATION CONTROL MEASURES ARE TO BE THE FIRST STEP IN CLEARING OR EARTHWORKS.
 - SEDIMENTATION BASIN TO BE FLOCCULATED AND PUMPED OUT AFTER EVERY STORM EVENT. ALL FLOCCULATED SEDIMENT TO BE REMOVED FROM THE BASIN AT THE CONCLUSION OF THE CONTRACT PERIOD.
 - ALL TEMPORARY EARTH BERMS AND DIVERSION BANKS ARE TO BE TRACK ROLLED AND SEEDED OR MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
 - PROVIDE FILTER SAUSAGE KERB INLET SEDIMENT TRAPS OR EQUIVALENT (TO THE SATISFACTION OF THE SUPERINTENDENT) TO ALL CONSTRUCTED INLET PITS AND STORMWATER PIPING.
 - ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR RE-USE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION FROM THE STOCKPILES.
 - SOIL/GRASS - TOPSOIL, 200mm THICK SHALL BE APPLIED TO ALL DISTURBED AREAS. ALL REMAINING EXPOSED TOPSOIL SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF THE SOIL SPREADING OPERATION.

	DESIGN	T.RYDEN	DATE:	31.01.2020
	DRAWN	T.RYDEN	SCALE:	AS SHOWN
	SURVEYING	CANTY'S SURVEYORS	SHEET SIZE:	A1
0	ISSUED FOR COUNCIL APPROVAL - DEVELOPMENT APPLICATION		DATE	31.01.2020
ISSUE	DESCRIPTION		DATE	

MANAGE-DESIGN-ENGINEER
PTY LTD

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M-D-E

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CLIENT
AGS COMMERCIAL

TITLE
PROPOSED WHISKY STORAGE BUILDINGS

PROJECT
**CAPE BYRON DISTILLERY
LOT 5 DP 594645
80 St HELENA ROAD
McLEODS SHOOT, NSW 2479**

CIVIL PLAN		
DRAWING TITLE: EROSION & SEDIMENTATION CONTROL PLAN		
DWG No:	C08	SHEET: 8 OF 8 REV: 0