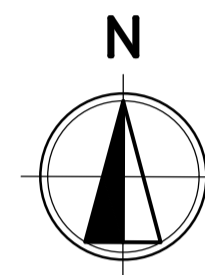


NEWPORT MARINA AND RESIDENTIAL DEVELOPMENT

LGA: NORTHERN BEACHES COUNCIL
DEVELOPMENT APPLICATION ISSUE

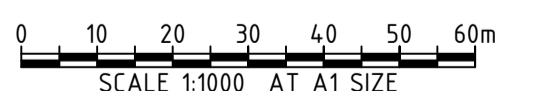


LOCALITY PLAN

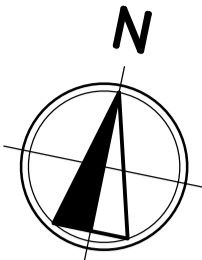
SCALE 1:1000



DRAWING INDEX	
DRG No.	DESCRIPTION
CI-0000	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
CI-0200	SITWORKS AND DRAINAGE PLAN
CI-0300	OVERLAND FLOW CATCHMENT PLAN
CI-0310	OVERLAND FLOW PLAN
CI-0320	PROPOSED INTERNAL ROAD PLAN
CI-0340	DRAINAGE DETAILS
CI-0380	MUSIC CATCHMENT PLAN
CI-0700	EROSION AND SEDIMENT CONTROL PLAN
CI-0710	EROSION AND SEDIMENT CONTROL DETAILS



<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>RVD</th> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>RVD</th> </tr> <tr> <td>B</td> <td>12/07/23</td> <td>ISSUED FOR DEVELOPMENT APPROVAL</td> <td>SH</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A</td> <td>31/05/22</td> <td>ISSUED FOR DEVELOPMENT APPROVAL</td> <td>SH</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD	B	12/07/23	ISSUED FOR DEVELOPMENT APPROVAL	SH					A	31/05/22	ISSUED FOR DEVELOPMENT APPROVAL	SH					<p>CLIENT</p>	<p>ARCHITECT</p> <p>Level One, One Chifley Square Sydney NSW 2000 Australia www.scottcarver.com.au +612 9557 3988</p>	<p>Sydney Office –</p> <p>L2, 8 Windmill St Sydney NSW 2000 P / +61 2 9770 3300 E / info@bgeeng.com bgeeng.com</p>	<p>PROJECT</p> <p>NEWPORT MARINA AND RESIDENTIAL DEVELOPMENT</p>	<p>STATUS</p> <p>ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION</p> <table border="1"> <tr> <td>DRAWN</td> <td>DESIGNED</td> <td>CHECKED</td> <td>APPROVED</td> </tr> <tr> <td>HA</td> <td>SM</td> <td>SH</td> <td></td> </tr> </table> <p>DATUM: AHD GRID: GDA2020 MGA-56 SCALE: 1:1000 AT A1 SIZE</p>	DRAWN	DESIGNED	CHECKED	APPROVED	HA	SM	SH		<p>TITLE</p> <p>COVER SHEET, LOCALITY PLAN AND DRAWING INDEX</p> <table border="1"> <tr> <td>PROJECT No.</td> <td>DRAWING No.</td> <td>REV</td> </tr> <tr> <td>S22042</td> <td>CI-0000</td> <td>B</td> </tr> </table>	PROJECT No.	DRAWING No.	REV	S22042	CI-0000	B
REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD																																						
B	12/07/23	ISSUED FOR DEVELOPMENT APPROVAL	SH																																										
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PROJECT No.	DRAWING No.	REV																																											
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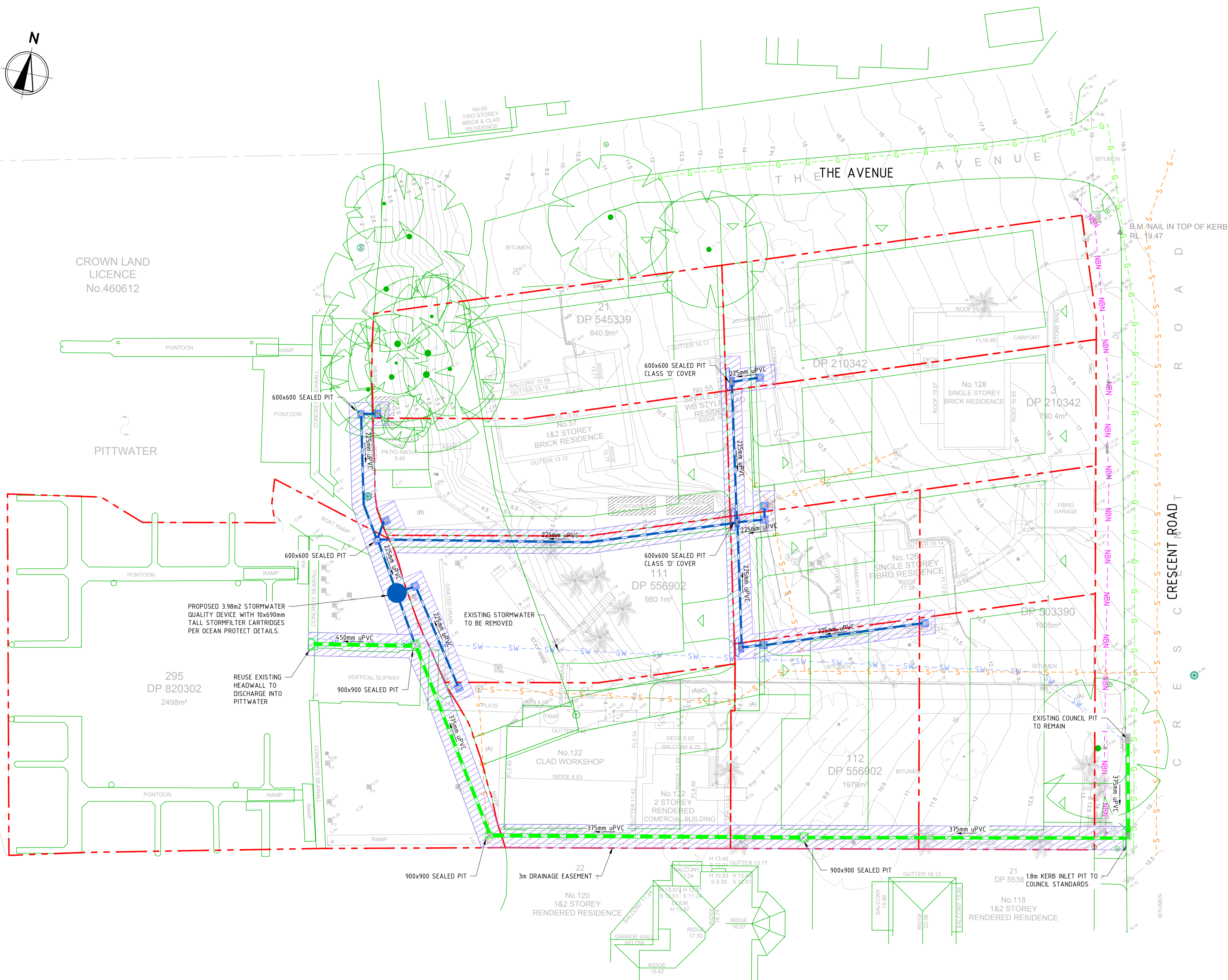


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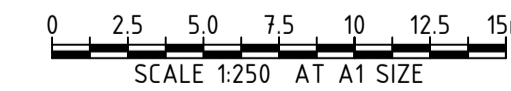
- SITE BOUNDARY
- $\phi 150$ uPVC PROPOSED STORMWATER (SIZE AND TYPE)
- PROPOSED SEALED PIT/ KERB INLET PIT
- $\phi 150$ uPVC PROPOSED COUNCIL STORMWATER (SIZE AND TYPE)
- PROPOSED COUNCIL SEALED PIT/ KERB INLET PIT
- EXISTING KERB INLET PIT
- EXISTING SURVEY FEATURES
- ARCHITECTURAL
- HEADWALL
- ▨ 3m DRAINAGE EASEMENT

EXISTING SERVICES

- EXISTING NBN
- EXISTING GAS
- EXISTING SEWER
- EXISTING STORMWATER



PLAN
SCALE 1:250



REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD
D	12.07.23	ISSUED FOR DEVELOPMENT APPROVAL	SH				
C	08.06.22	ISSUED FOR DEVELOPMENT APPROVAL	SH				
B	07.06.22	ISSUED FOR DEVELOPMENT APPROVAL	SH				
A	31.05.22	ISSUED FOR DEVELOPMENT APPROVAL	SH				

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STATUS: ISSUED FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

DRAWN	DESIGNED	CHECKED	APPROVED
HA	AM	SH	

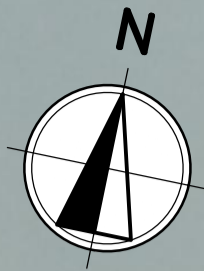
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TITLE: **SITWORKS AND DRAINAGE PLAN**

PROJECT No.	DRAWING No.	REV
S22042	CI-0200	D

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12/07/2023 4:29:23 PM

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LEGEND

- SITE BOUNDARY
- CADASTRAL
- EXISTING PIT/ KERB INLET PIT
- PROPOSED PIT/ KERB INLET PIT
- EXTERNAL CATCHMENT OVERLAND FLOW TO PROPOSED GRASSED SWALE ON SITE
- INTERNAL CATCHMENT OVERLAND FLOW TO PROPOSED GRASSED SWALE ON SITE
- PROPOSED GRASSED SWALE

EXTERNAL CATCHMENT FLOWS CALCULATION:

- STORM EVENT = 100 YR ARI
- TIME OF CONCENTRATION = 5 MINS
- INTENSITY = 273 mm/hr
- CATCHMENT AREA = 0.7109 Ha
- C=0.75

OVERLAND FLOW = 0.404 m³/s

INTERNAL CATCHMENT FLOWS CALCULATION:

- STORM EVENT = 100 YR ARI
- TIME OF CONCENTRATION = 5 mins
- INTENSITY = 273 mm/hr
- CATCHMENT AREA = 0.3960 Ha
- C=0.54

OVERLAND FLOW = 0.161 m³/s
 QTOTAL (INCLUDING EXTERNAL CATCHMENT FLOWS) = 0.404+0.161 = 0.566 m³/s

PLAN
SCALE 1:400



REV	DATE	DESCRIPTION	REV	DATE	DESCRIPTION
A	12.07.23	ISSUED FOR DEVELOPMENT APPROVAL	SH		
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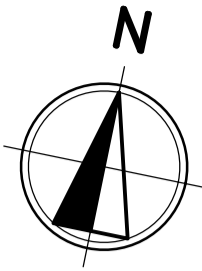
STATUS **ISSUED FOR APPROVAL**
 NOT TO BE USED FOR CONSTRUCTION

DRAWN HA	DESIGNED SM	CHECKED SH	APPROVED
DATUM AHD	GRID GDA2020 MGA-56	SCALE AS SHOWN	AT A1 SIZE

TITLE **OVERLAND FLOW CATCHMENT PLAN**

PROJECT No. S22042	DRAWING No. CI-0300	REV A
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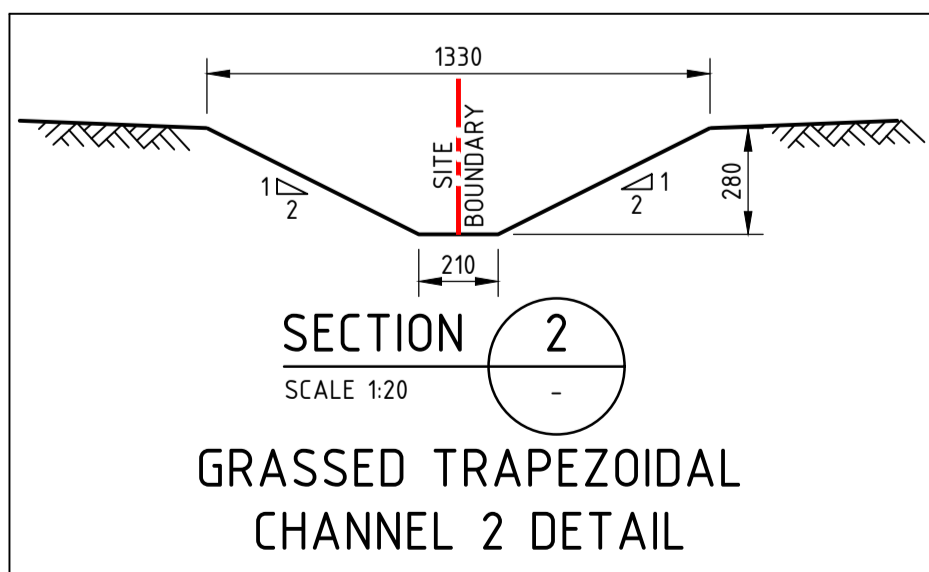
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CROWN LAND LICENCE No.460612

PITWATER

295 DP 820302 2498m²



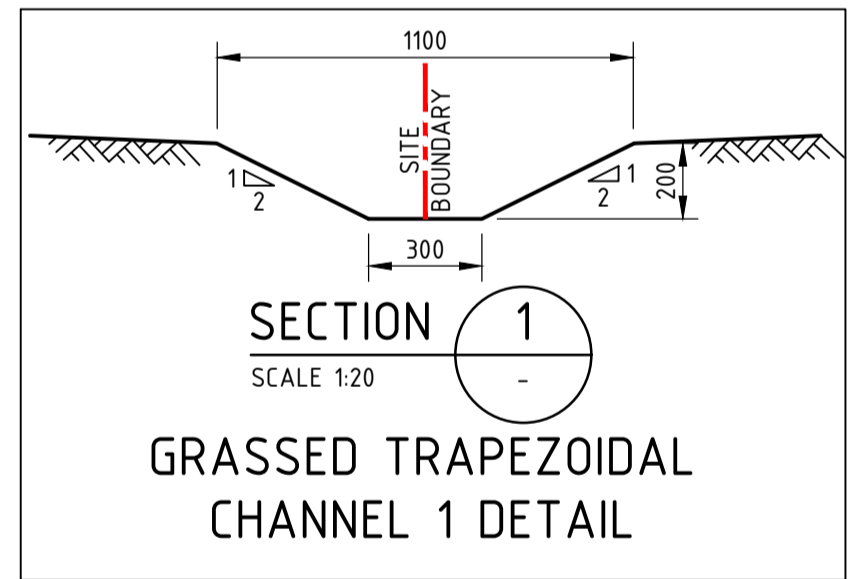
PROPOSED GRASSED TRAPEZOIDAL CHANNEL BETWEEN LOTS 6 & 7 TO CATER FOR THE OVERLAND FLOW PATH. REFER SECTION 2 FOR DETAILS.

CHANNEL 2 DETAILS:
LENGTH = 37.80m
1330mm WIDE x 280mm DEEP @115%
APPROX SLOPE (MANNINGS 'N' = 0.035)
OVERLAND FLOW = 0.566 m³/s
OSWALE = 0.583 m³/s

PLAN
SCALE 1:250

LEGEND

- SITE BOUNDARY
- PROPOSED STORMWATER
- PROPOSED SEALED PIT/ KERB INLET PIT
- PROPOSED COUNCIL STORMWATER
- PROPOSED COUNCIL SEALED PIT/ KERB INLET PIT
- EXISTING KERB INLET PIT
- EXISTING SURVEY FEATURES
- ARCHITECTURAL
- HEADWALL
- 3m DRAINAGE EASEMENT
- PROPOSED GRASSED SWALE
-
- EXISTING SERVICES**
- NBN EXISTING NBN
- G EXISTING GAS
- S EXISTING SEWER
- SW EXISTING STORMWATER



PROPOSED GRASSED TRAPEZOIDAL SWALE BETWEEN LOTS 3, 4 & 5 TO CATER FOR THE OVERLAND FLOW PATH FROM CRESCENT STREET. REFER SECTION 1 FOR DETAILS.

CHANNEL 1 DETAILS:
LENGTH = 42.70m
1100 WIDE x 200mm DEEP @ 18.0%
APPROX SLOPE (MANNINGS 'N' = 0.035)
OVERLAND FLOW = 0.404 m³/s
OSWALE = 0.406 m³/s

REFER TO DRAWING CI-0300 FOR THE OVERLAND FLOW CATCHMENT PLAN LAYOUT & CALCULATIONS.

0 0.2 0.4 0.6 0.8 1.0 1.2m
SCALE 1:20 AT A1 SIZE

0 2.5 5.0 7.5 10 12.5 15m
SCALE 1:250 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD
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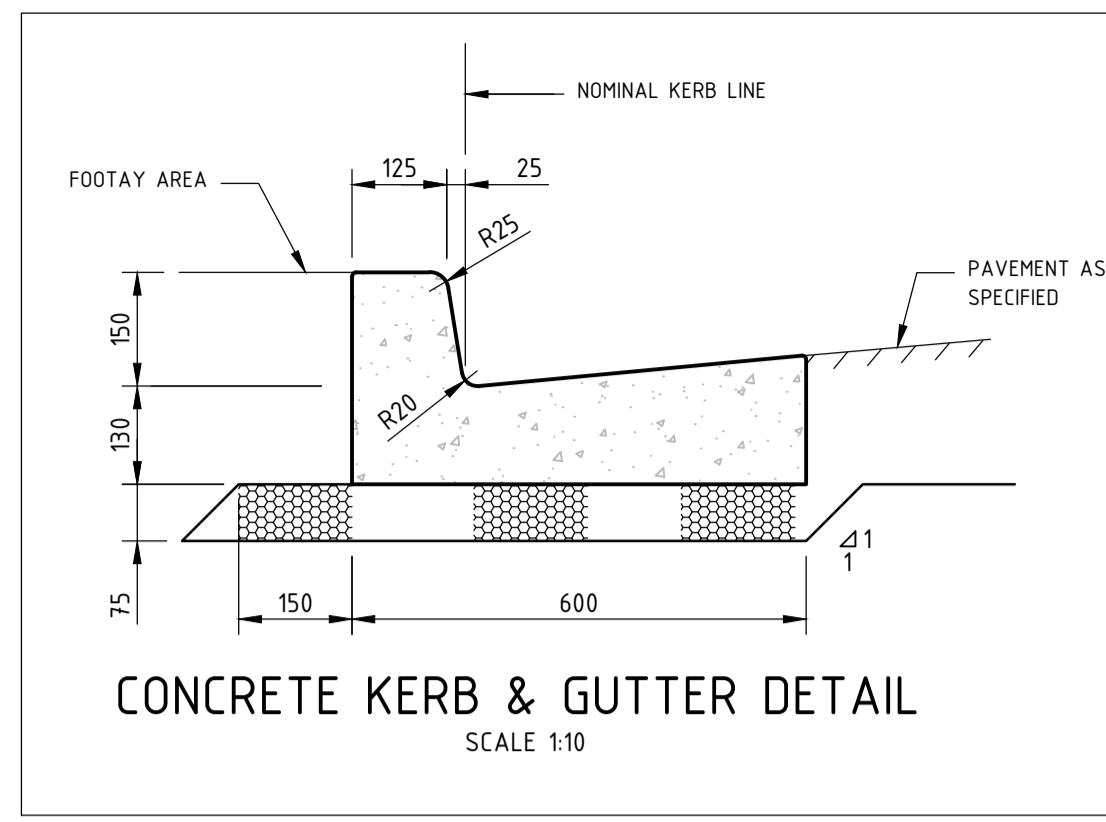
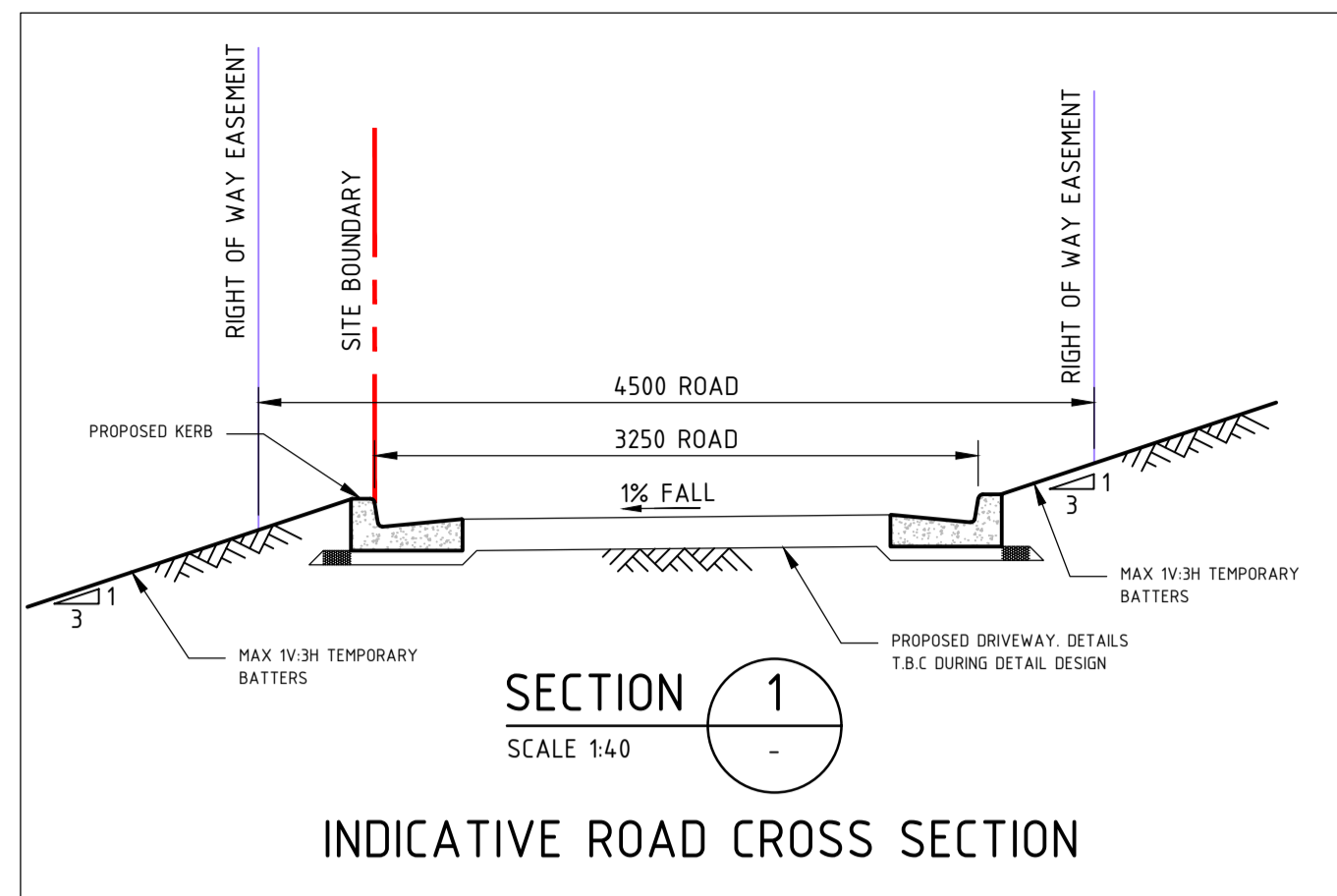
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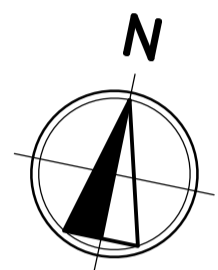
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ISSUED FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION			
DRAWN	DESIGNED	CHECKED	APPROVED
HA	SM	SH	
DATUM	GRID	SCALE	
AHD	GDA2020 MGA-56	AS SHOWN	

TITLE	
OVERLAND FLOW PLAN	
PROJECT No.	DRAWING No.
S22042	CI-0310
REV	
A	

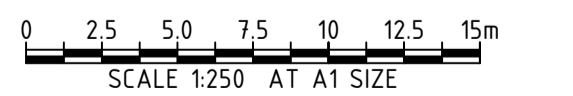
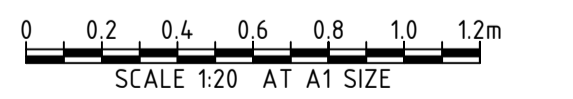
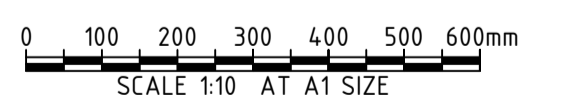
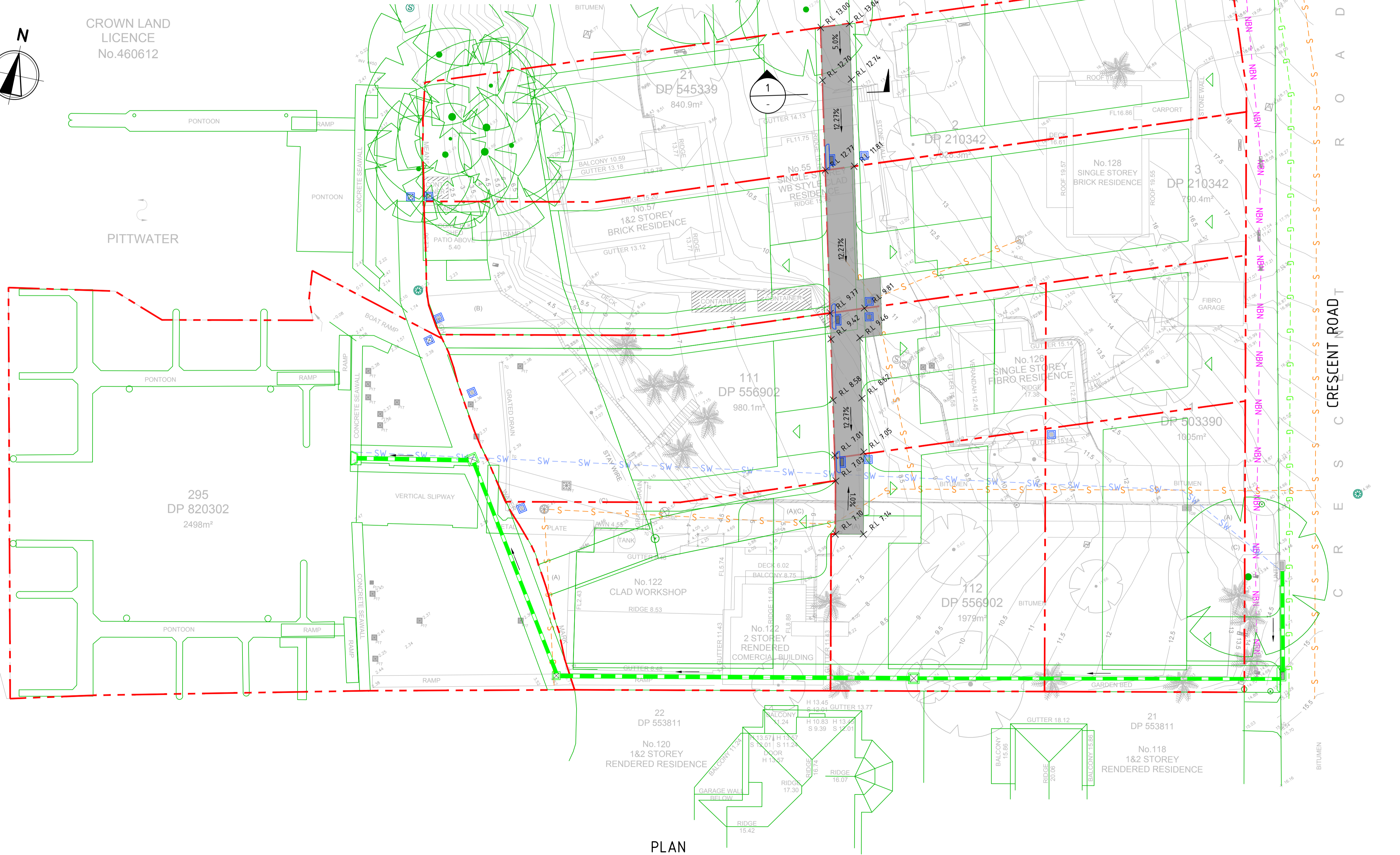


- LEGEND**
- SITE BOUNDARY
 - PROPOSED SEALED PIT/ KERB INLET PIT
 - PROPOSED COUNCIL STORMWATER
 - PROPOSED COUNCIL SEALED PIT/ KERB INLET PIT
 - EXISTING KERB INLET PIT
 - EXISTING SURVEY FEATURES
 - ARCHITECTURAL
 - HEADWALL
 - 3m DRAINAGE EASEMENT
 - PROPOSED INTERNAL ROAD

- EXISTING SERVICES**
- EXISTING NBN
 - EXISTING GAS
 - EXISTING SEWER
 - EXISTING STORMWATER



CROWN LAND LICENCE No.460612



REV	DATE	DESCRIPTION	REV	DATE	DESCRIPTION
A	12.07.23	ISSUED FOR DEVELOPMENT APPROVAL	SH		
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HA	SM	SH	
DATUM	GRID	SCALE	
AHD	GDA2020 MGA-56	AS SHOWN	

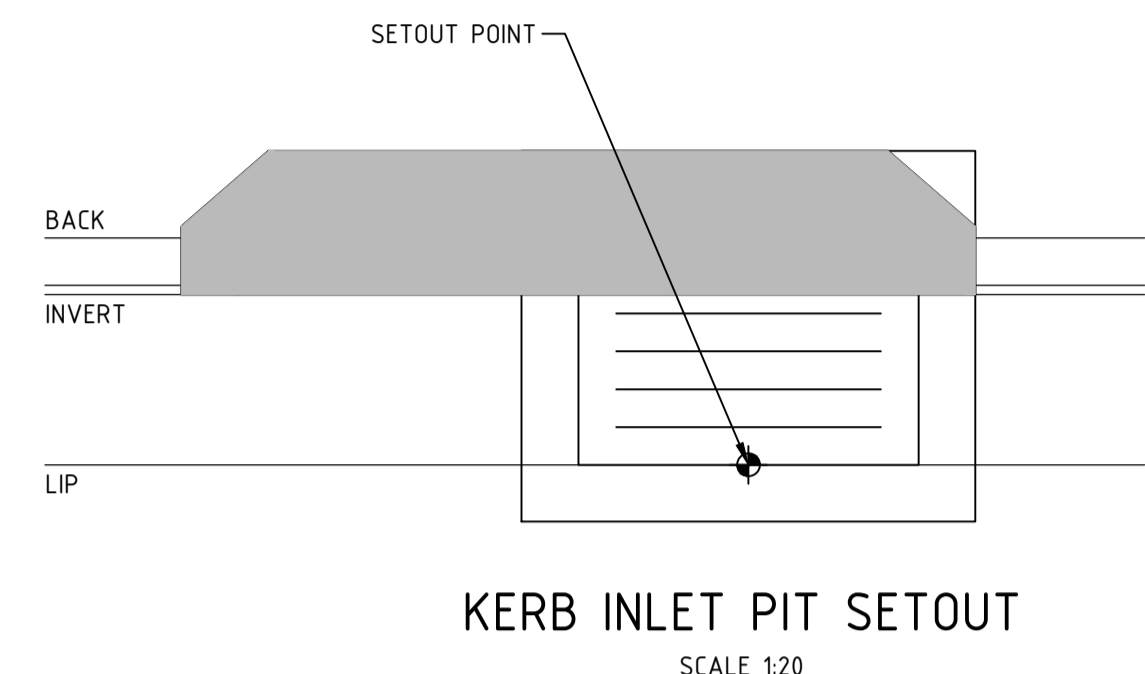
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PROPOSED INTERNAL ROAD PLAN

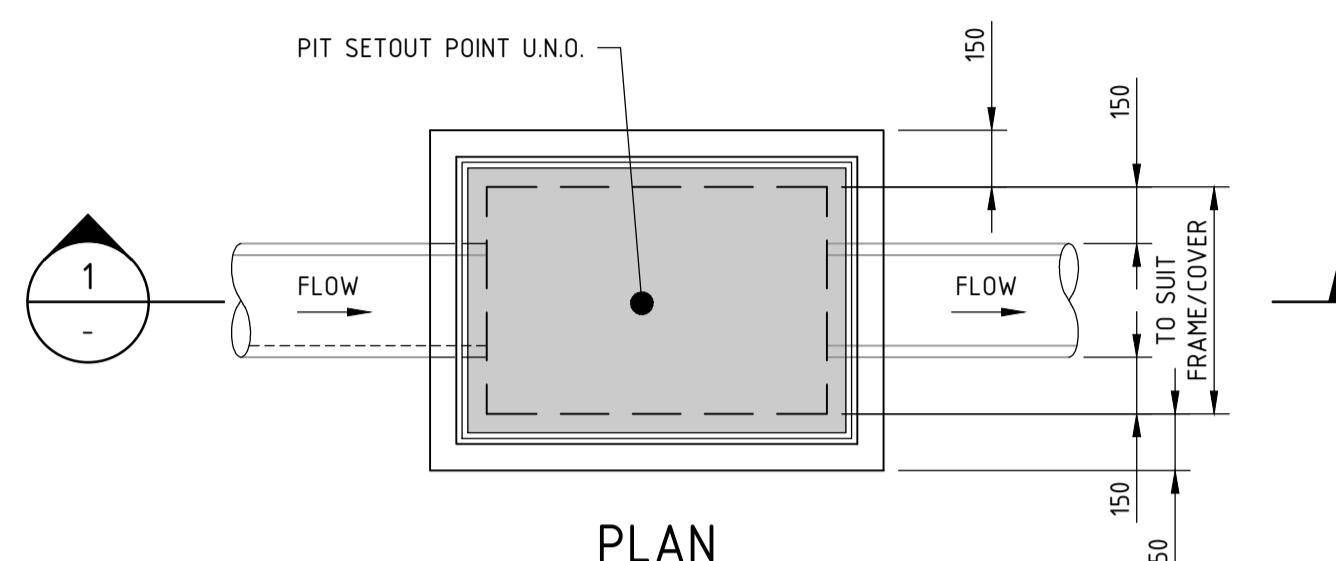
PROJECT No.	DRAWING No.	REV
S22042	CI-0320	A

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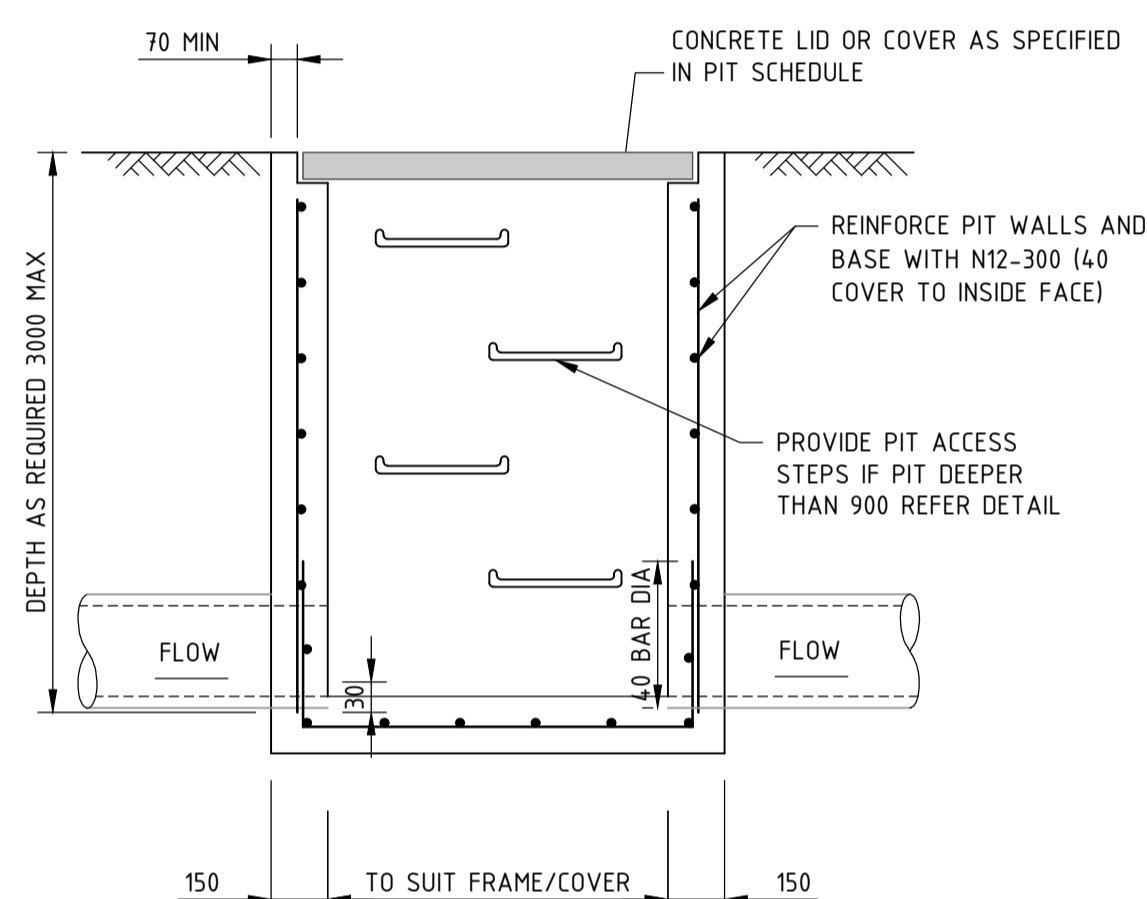
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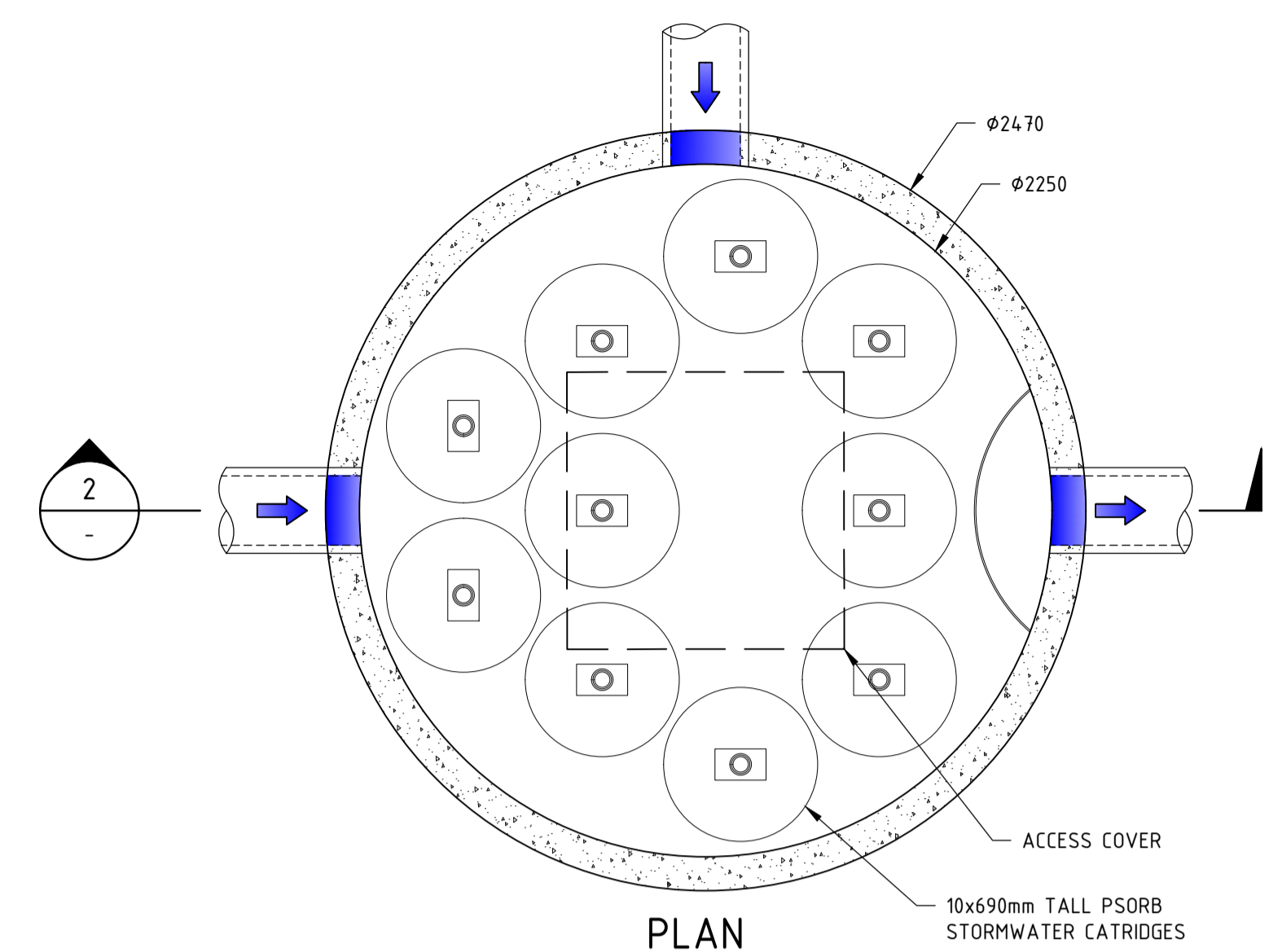
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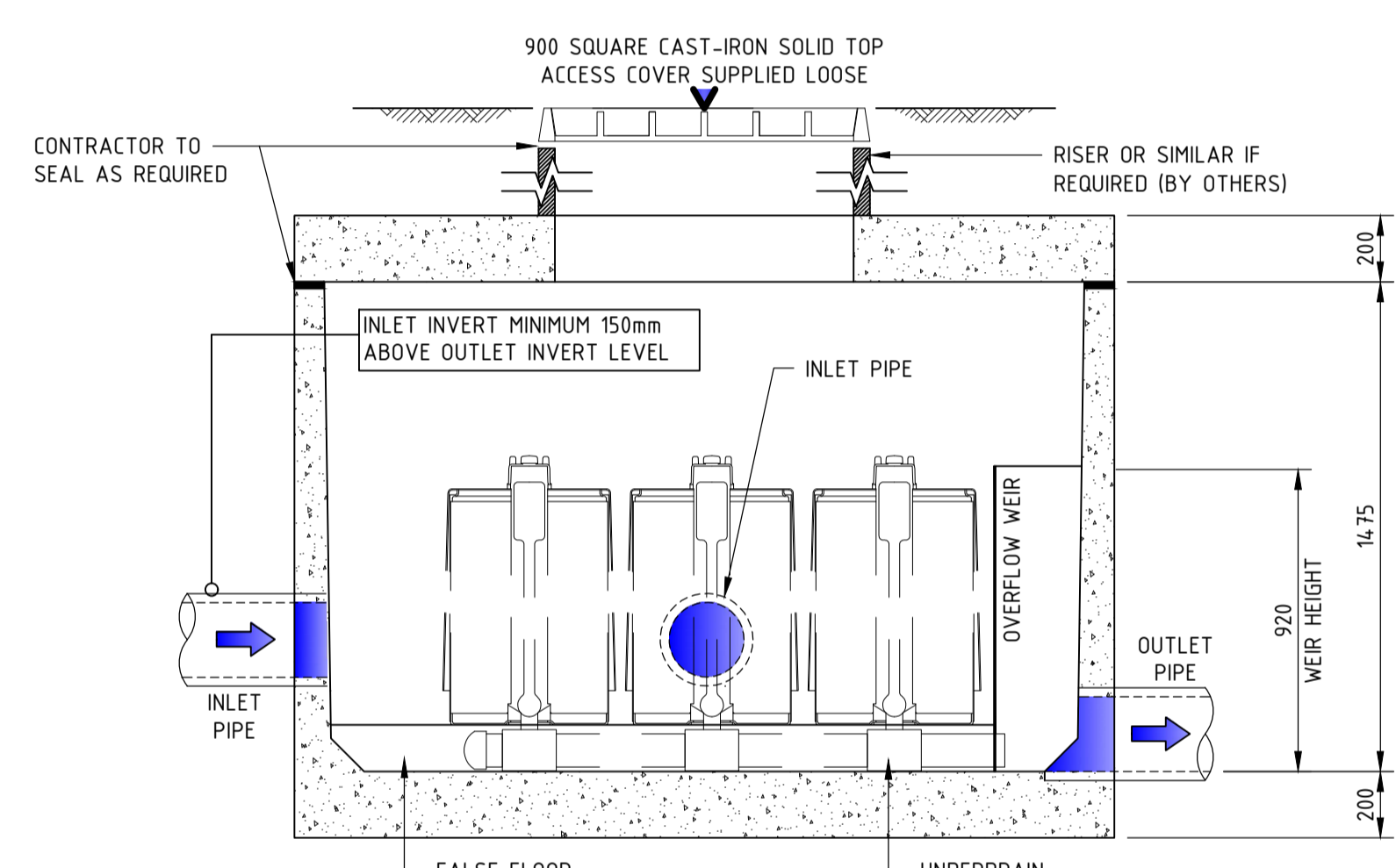
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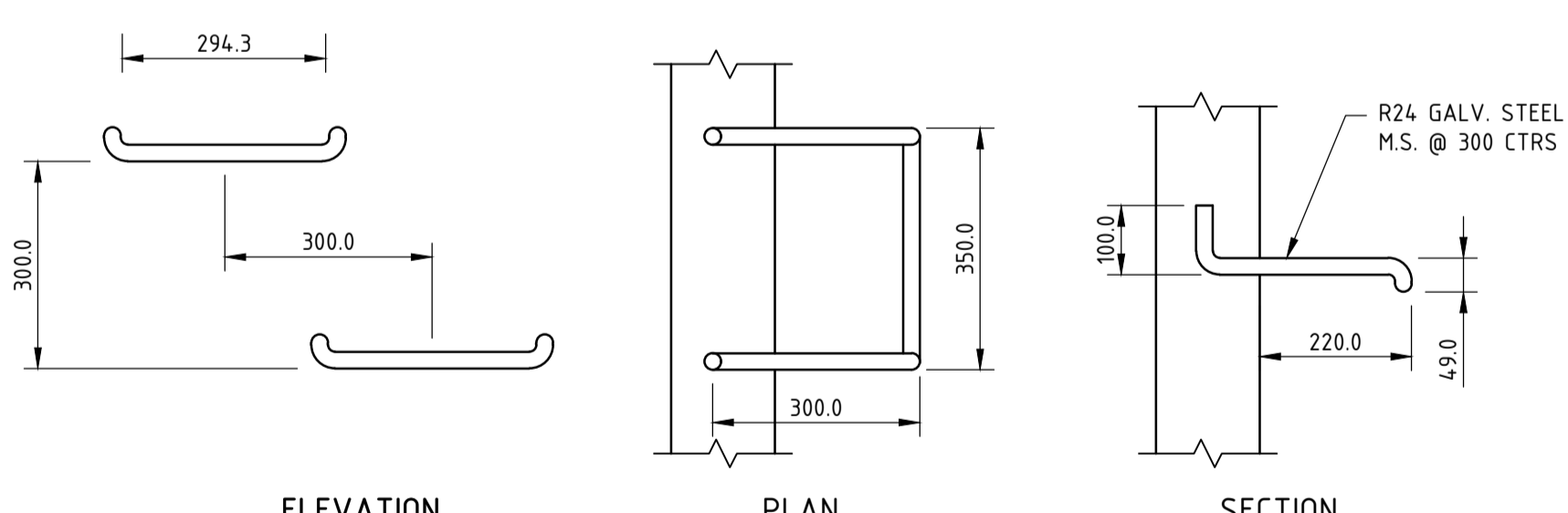
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SCALE 1:20



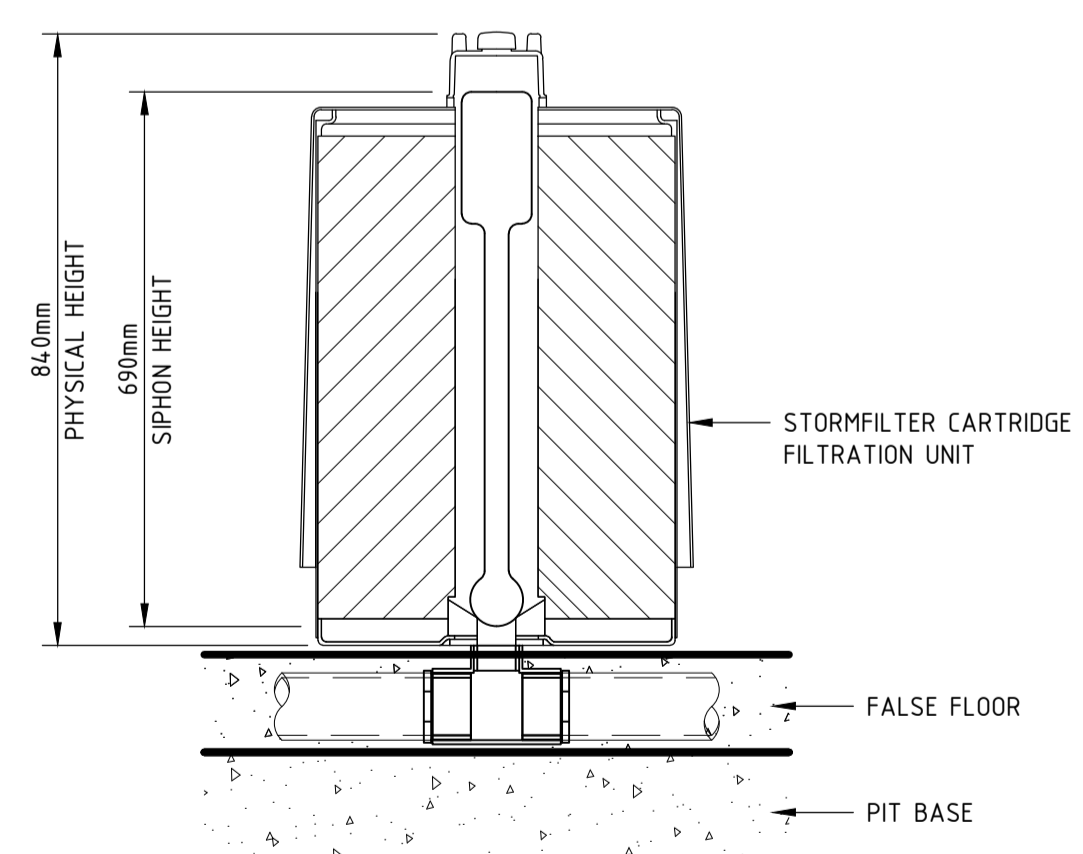
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SCALE 1:20



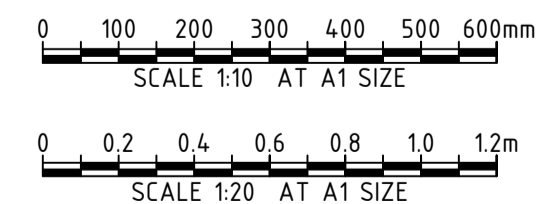
SECTION 2
SCALE 1:20



TYPICAL STEP IRON DETAILS
SCALE 1:10



STORMFILTER CARTRIDGE DETAIL
SCALE N.T.S



REV	DATE	DESCRIPTION	REVISIONS
B	12.07.23	ISSUED FOR DEVELOPMENT APPROVAL	SH
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HA	AM	SH	

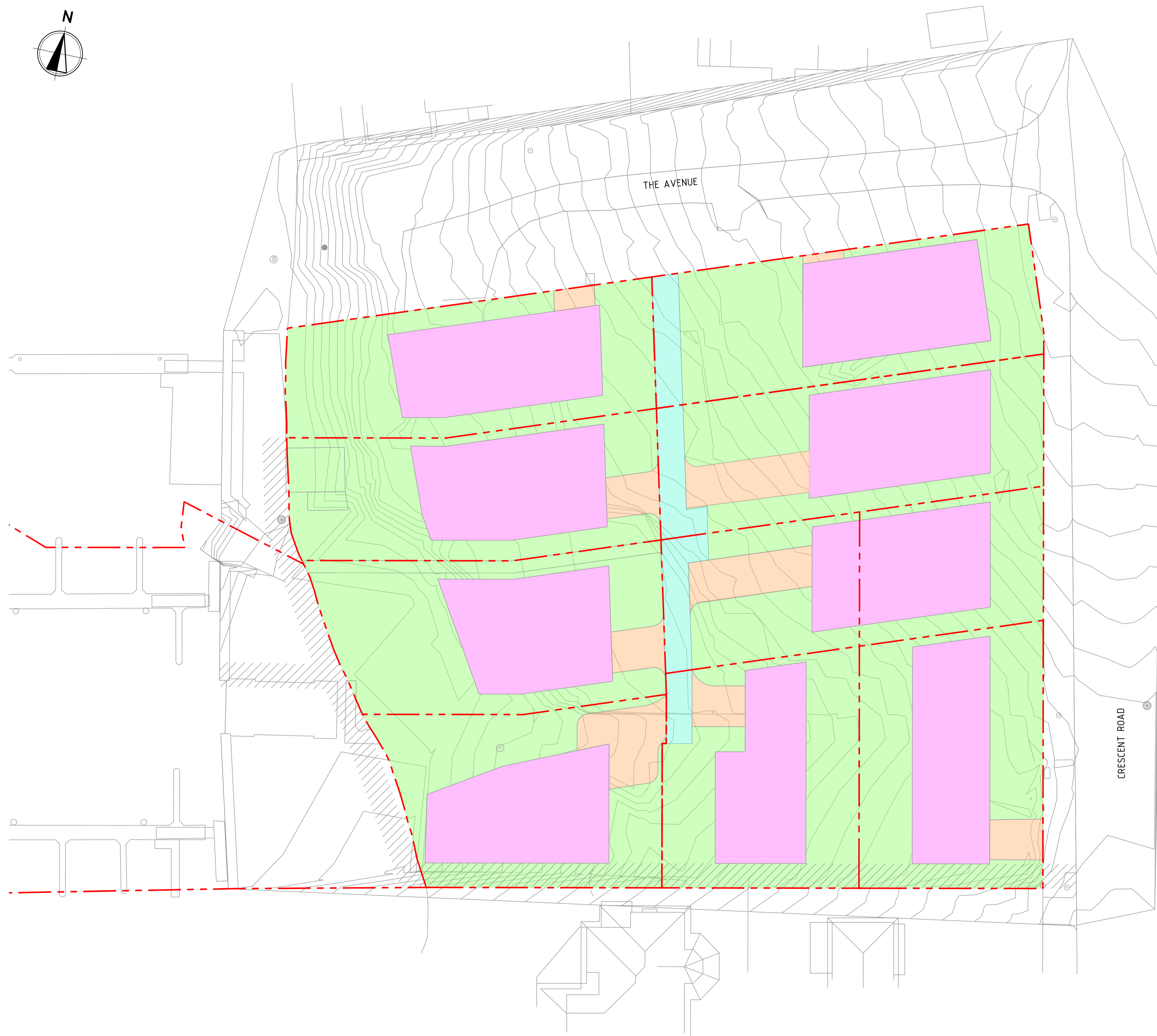
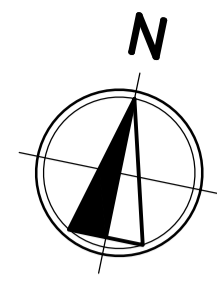
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GRID: GDA2020 MGA-56
SCALE: AS SHOWN
AT A1 SIZE

TITLE

DRAINAGE DETAILS

PROJECT No: **S22042**
DRAWING No: **CI-0340**
REV: **B**

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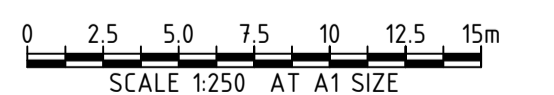
- SITE BOUNDARY
- SURVEY LINE WORK
- ROOF AREA (2416.33m²)
- DRIVEWAY AREA (382.92m²)
- LANDSCAPE AREA (3523.39m²)
- ROAD AREA (202.66m²)
- (TOTAL 6525.3m²)

WATER QUALITY

TREATMENT NODES:
 - STORMFILTER CHAMBER WITH 10xOCEAN PROTECT 690mm PSORB (MCC)
 STORMFILTER CARTRIDGES OR EQUIVALENT PRODUCT.

TREATMENT STANDARDS			
POLLUTANT	POST(kg/yr)	REDUCTION (%)	COUNCIL REQUIREMENTS(%)
GROSS POLLUTANT	0.0	100	90
TOTAL SUSPENDED SOLIDS	60.5	85.0	85
TOTAL PHOSPHORUS	0.247	77.2	65
TOTAL NITROGEN	4.37	56.2	45

STORMWATER DRAINAGE REQUIREMENTS HAVE BEEN CALCULATED IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL'S WSUD & MUSIC MODELLING GUIDELINES.



REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD
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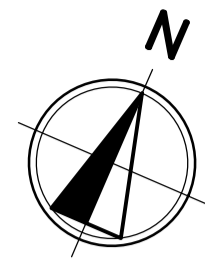
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DATUM AHD	GRID GDA2020 MGA-56	SCALE 1:250	AT A1 SIZE

TITLE MUSIC CATCHMENT PLAN		
PROJECT No. S22042	DRAWING No. CI-0380	REV

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LEGEND

- SITE BOUNDARY
- STABILISED SITE ACCESS
- SEDIMENT FENCE
- SECURITY FENCE
- SUGGESTED TEMPORARY STOCKPILE LOCATION
- GROUND FLOOR ARCHITECTURAL
- MESH & GRAVEL INLET FILTER

EXISTING SERVICES

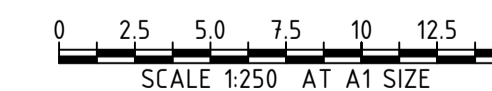
- EXISTING NBN
- EXISTING GAS
- EXISTING SEWER
- EXISTING STORMWATER

NOTES

1. REFER DRAWING CI-0710 FOR EROSION AND SEDIMENT CONTROL DETAILS.
2. CONTRACTOR TO ENSURE SITE DRAINAGE IS NOT ADVERSELY IMPACTED DURING CONSTRUCTION.
3. CONTRACTOR TO PROVIDE 'SANDBAG SEDIMENT TRAP' TO ALL PAVED / ROAD AREAS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
4. CONTRACTOR TO PROVIDE 'GEOTEXTILE INLET FILTER TRAPS' TO ALL STORMWATER DRAINAGE INLETS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
5. INSTALL AND MAINTAIN SANDBAG FILTERS ACROSS ALL PAVEMENT INTERFACES.



PLAN
SCALE 1:250



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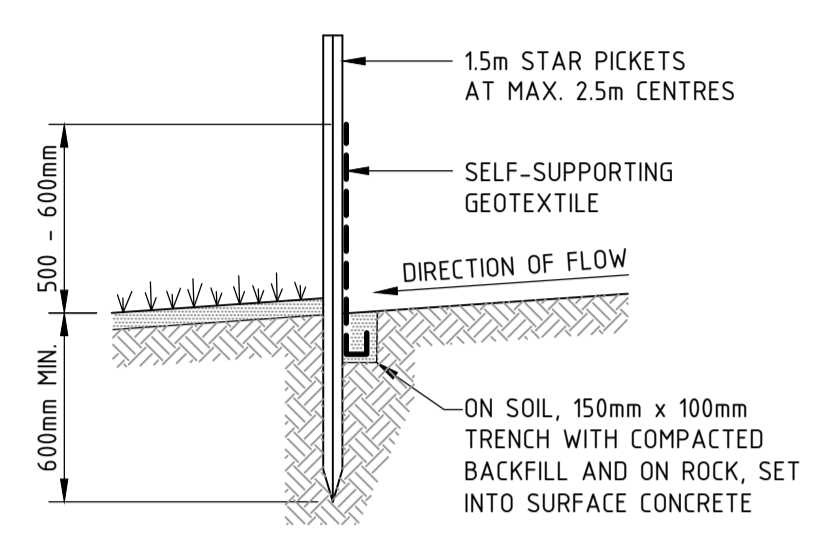
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AT A1 SIZE

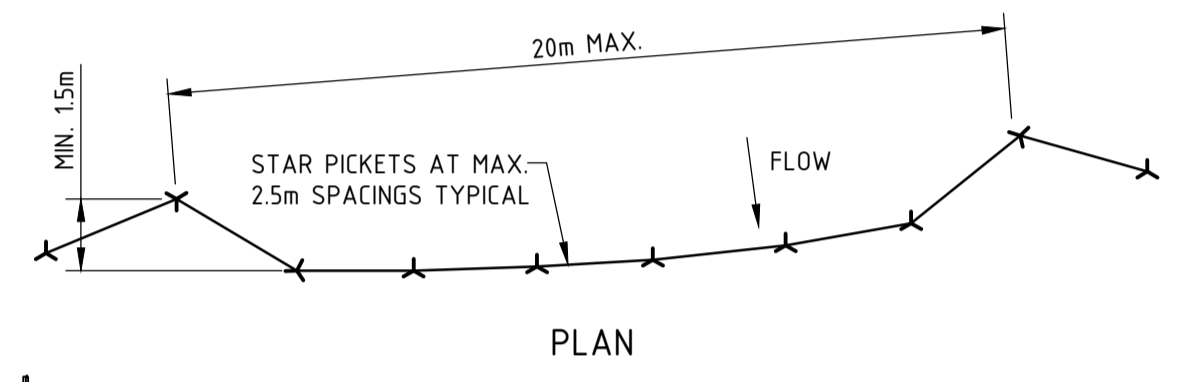
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EROSION AND SEDIMENT
CONTROL PLAN

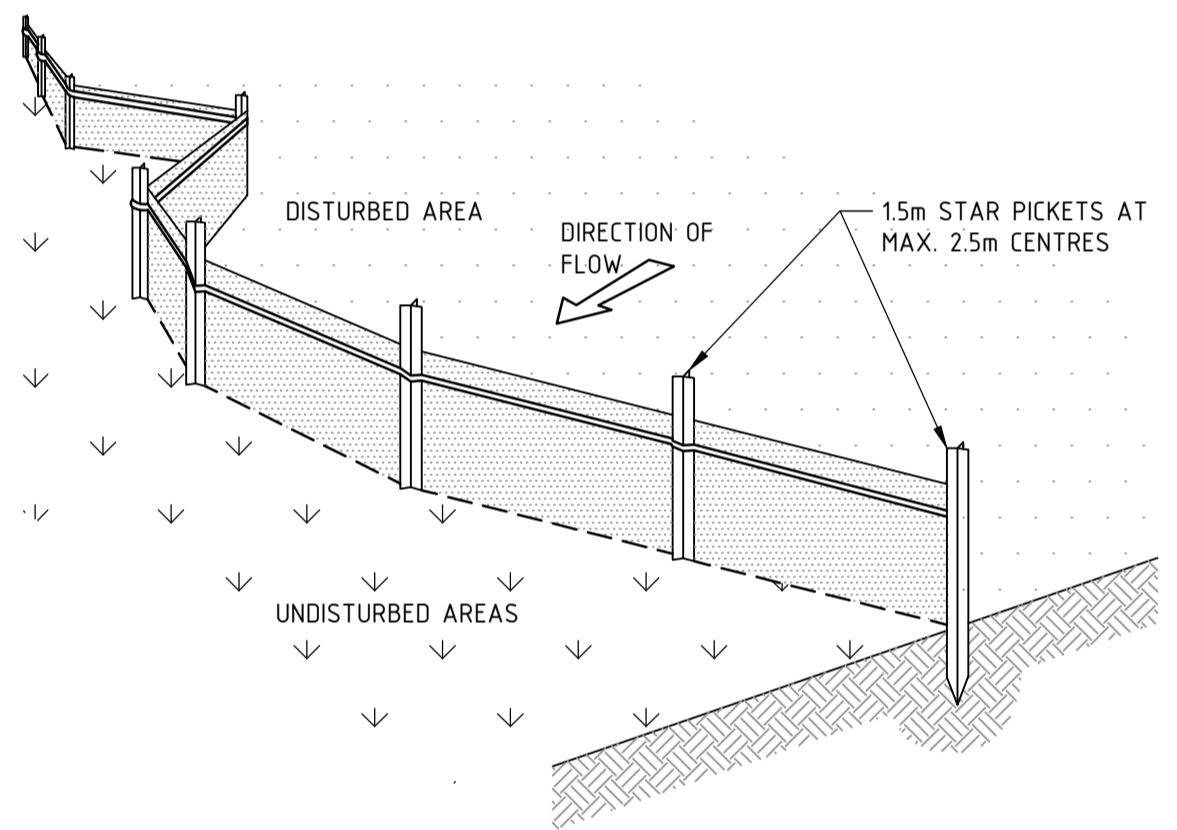
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DRAWING No. CI-0700
REV B



SECTION DETAIL

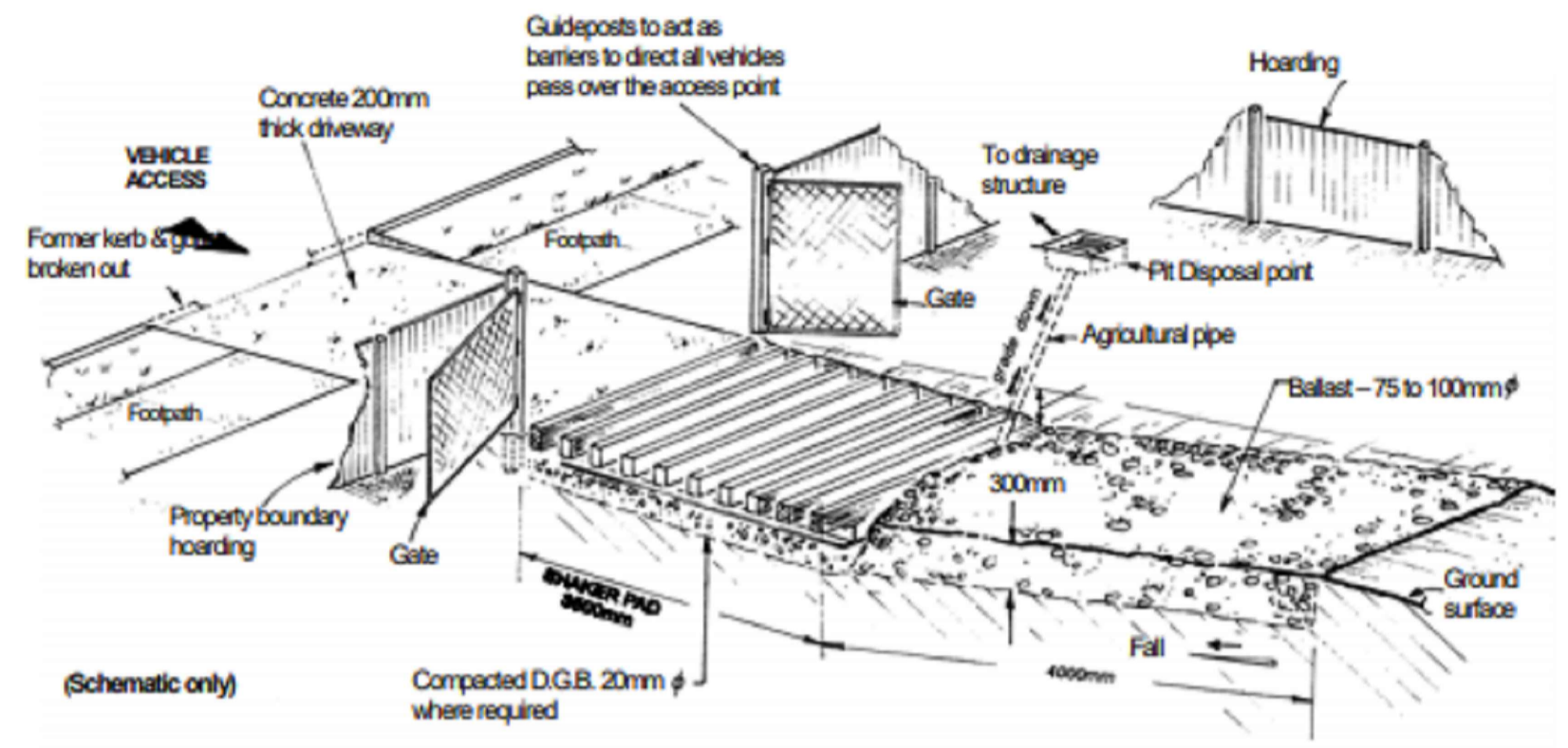


PLAN



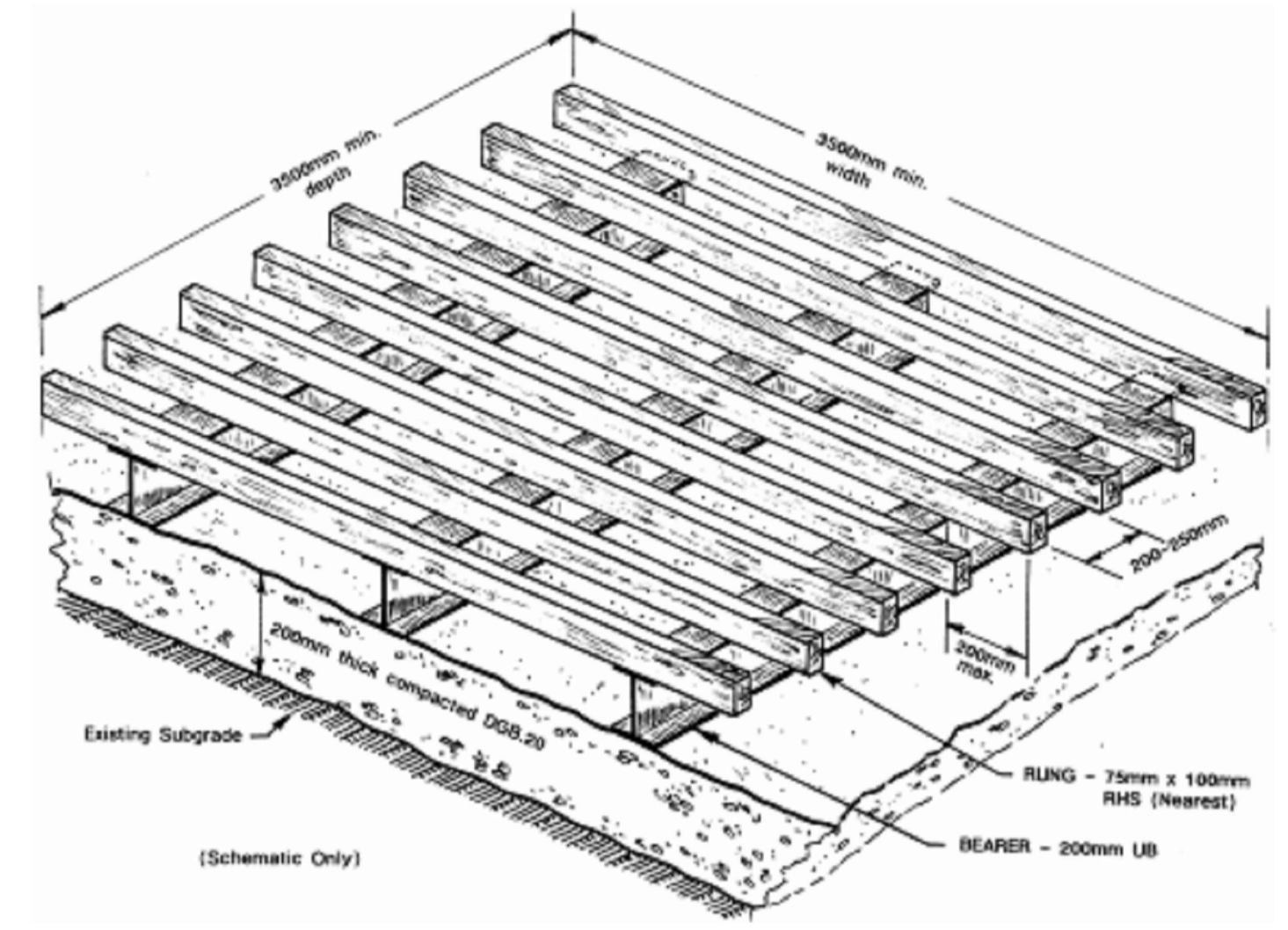
- SEDIMENT FENCE CONSTRUCTION NOTES:**
- CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
 - CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
 - DRIVE 15m LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
 - 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.
 - JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
 - BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE
 SCALE N.T.S.

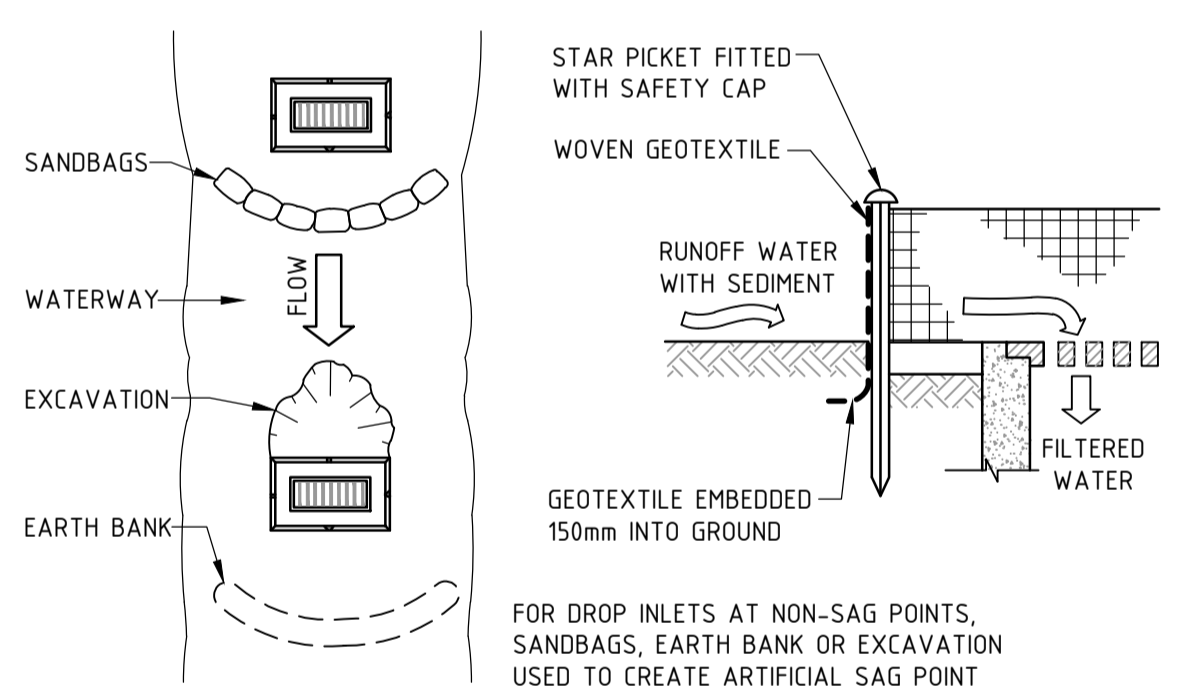
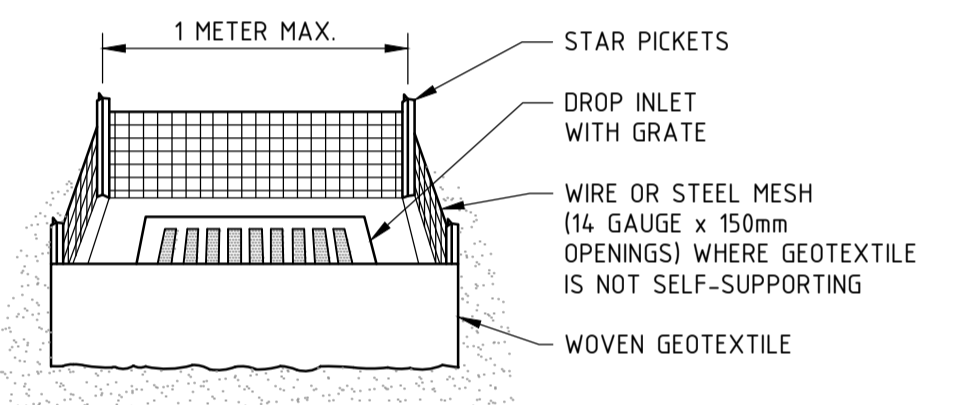


(Schematic only)

STABILISED SITE ACCESS - SHAKER GRID
 SCALE N.T.S.

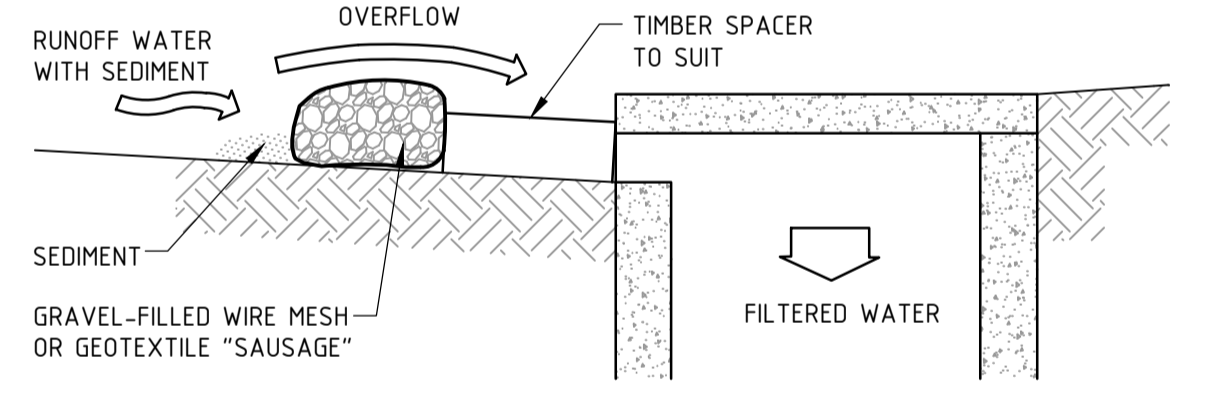
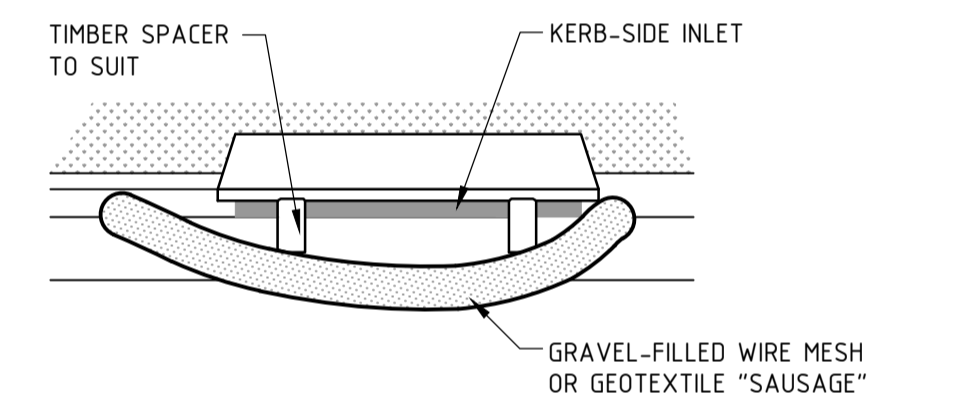


(Schematic Only)



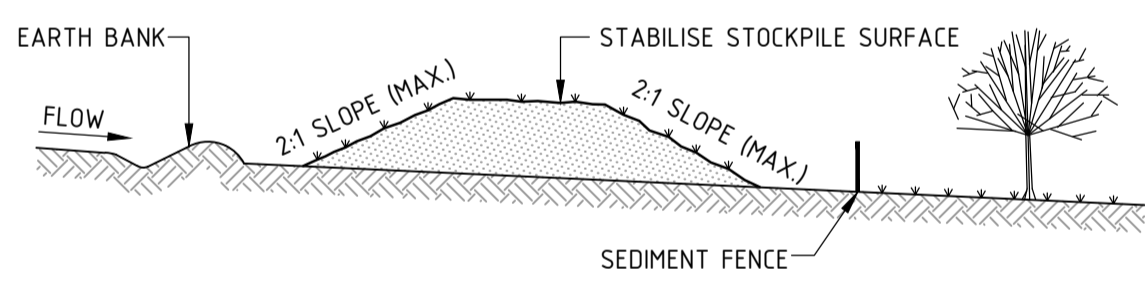
- GEOTEXTILE INLET FILTER CONSTRUCTION NOTES:**
- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
 - PICKET SPACING TO BE A MAXIMUM 1.0m CENTRES.
 - IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
 - DO NOT COVER THE INLET WITH GEOTEXTILES UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER
 SCALE N.T.S.



- MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:**
- INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
 - FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
 - FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
 - PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
 - FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
 - SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

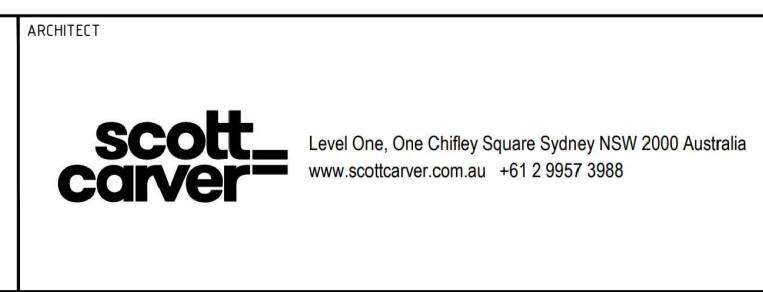
MESH & GRAVEL INLET FILTER
 SCALE N.T.S.



- STOCKPILE CONSTRUCTION NOTES:**
- PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
 - CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
 - WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
 - WHERE THEY ARE TO BE PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
 - CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

STOCKPILES
 SCALE N.T.S.

REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD
B	12.07.23	ISSUED FOR DEVELOPMENT APPROVAL	SH				
A	31.05.22	ISSUED FOR DEVELOPMENT APPROVAL	SH				



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BG & E
 NEWPORT MARINA AND
 RESIDENTIAL DEVELOPMENT

STATUS				ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION			
DRAWN	DESIGNED	CHECKED	APPROVED				
HA	AM	SH					
DATUM	GRID	SCALE		PROJECT No.	DRAWING No.	REV	
AHD	GDA2020 MGA-56	NOT TO SCALE	AT A1 SIZE	S22042	CI-0710	B	

**EROSION AND SEDIMENT
 CONTROL DETAILS**

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