OVERALL SITE PLAN

1:1000@A1

NOTE S

PROTECTIVE BUNTING TO BE INSTALLED TO TREE PROTECTION ONES PRIOR TO WORKS BEING UNDERTAKEN, AND MUST REMAIN IN PLACE UNTIL ALL WORKS ARE COMPLETED.

ISSUE	REVISION	DATE

REFERENCE COORDINATION DRAWING

DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.		DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.				FIRE			
STRUCT.				LANDS			
MECH.				CIVIL			
ELEC.				SURVEY			
HYD.							

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MOB: 0419 041 401

QUALITY CONTROL	
DRAWN	DATE
DESIGNED	DATE
CHECKED	DATE

APPROVED:

CLIENT:

PROJECT:

TITLE: OVERALL SITE PLAN

DRAWING STATUS

SCALE (AT ORIGINAL SIZE): AS NOTED

PROJECT NO. | DRAWING NO. C2 | REVISION NO.

a1

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ONSITE RAINWATER TANK FOR STORMWATER REUSE

PROVIDE R.C HEADWALL AND ROCK RIP RAP:
- ROCK DIA. 150mm MIN.
- LENGTH 1.0m MIN.
- WITH 1.2m MIN
- LOCATION TO BE DETERMINE ON SITE, CLEAR OF STEEP SLOPE

140,000 ltr WATER TANK LOCATION TO BE DETERMINED ON SITE

140000L MIN. RAINWATER TANK (Ø9.40m x 2.30m H). TOP OF THE TANK TO BE 1.0m MIN. LOWER THAN ROOF GUTTER

WATERCOURSE CATEGORY 3

BIODIVERSITY - HABITAT COORIDOR ZONE

GAS BOTTLE

TENNIS COURT

WITH MESH SCREEN ON OUTLET PIPE

WITH MESH SCREEN ON OUTLET PIPE

40000L RAINWATER TANK INLET PIPE TO BE MINIMUM 1m BELOW GUTTER LEVEL

40,000 ltr WATER TANK LOCATION TO BE DETERMINED ON SITE

PROPOSED ANTS & OUTLET FILTER

8160

6850

DCP PIT
RL
IL

10m LENGTH x 1.0m WIDTH SPREADER TRENCH RL 364.90

UNDERGROUND OSD/ABSORPTION SYSTEM
ATLANTIS MATRIX TANK MODEULES OR APPROVED EQUAL WRAPPED IN APPROVED GEOTEXTILE FABRIC AND INSTALLED TO MANUFACTURE'S SPECIFICATION.
- SURFACE AREA = 83.84m²
- 200 TRIPLE MODULES
- MODULES SIZE: 685mm L x 408mm W x 1310mm H
- CAPACITY- 366L/MODULES

DRAINAGE PLAN
1:250@A1

- φ150 DOWNPIPE OR 100x150 SQR DOWNPIPE WITH BUTTER SIZE OF MINIMUM 24000mm²
- PROVIDE INSPECTION OPENINGS AT 90° BENDS

DESIGN SUMMARY
SHOALHAVEN CITY COUNCIL

TOTAL SITE AREA = 40Ha (APPROX.)

PRE-DEVELOPMENT CONDITIONS:
TOTAL EXISTING IMPERVIOUS AREA= 0.00 m²

POST-DEVELOPMENT CONDITIONS:
TOTAL IMPERVIOUS AREA= 3524.07 m² (GRAVEL DRIVEWAY EXCLUDED)
ROOF AREA = 1835.16 m²
PAVED AREA = 1958.91 m²
GRASS LANDSCAPE AREA = 694.00 m²

VOLUME OF RETENTION REQUIRED:
STORAGE REQUIRED = 3524.07 x 0.01 = 35.24m³
PROVIDED = 140000L RWT + 40000L RWT = 180000L

SITE DISCHARGE

TRIBUTARY AREA (DEVELOPMENT AREA ONLY) = 4560.33m²
% IMPERVIOUS (PRE) = 0.0%
% IMPERVIOUS (POST) = 100%

Q_{50PRE} = 94 l/s
Q_{50POST} = 74 l/s

ORIFICE = 200mm

NOTE S
PROTECTIVE BUNTING TO BE INSTALLED TO TREE PROTECTION ONES PRIOR TO WORKS BEING UNDERTAKEN, AND MUST REMAIN IN PLACE UNTIL ALL WORKS ARE COMPLETED.

IMPERVIOUS (ROOF) AREA
IMPERVIOUS (PAVED) AREA
PREVIOUS/GRAVEL ROAD AREA

DEVELOPMENT SITE PLAN
1:5000@A1

ISSUE	REVISION	DATE

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STRUCT.				LANDS			
MECH.				CIVIL			
ELEC.				SURVEY			
HYD.							

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QUALITY CONTROL	
DRAWN	DATE
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CHECKED	DATE

APPROVED:

CLIENT:

PROJECT:

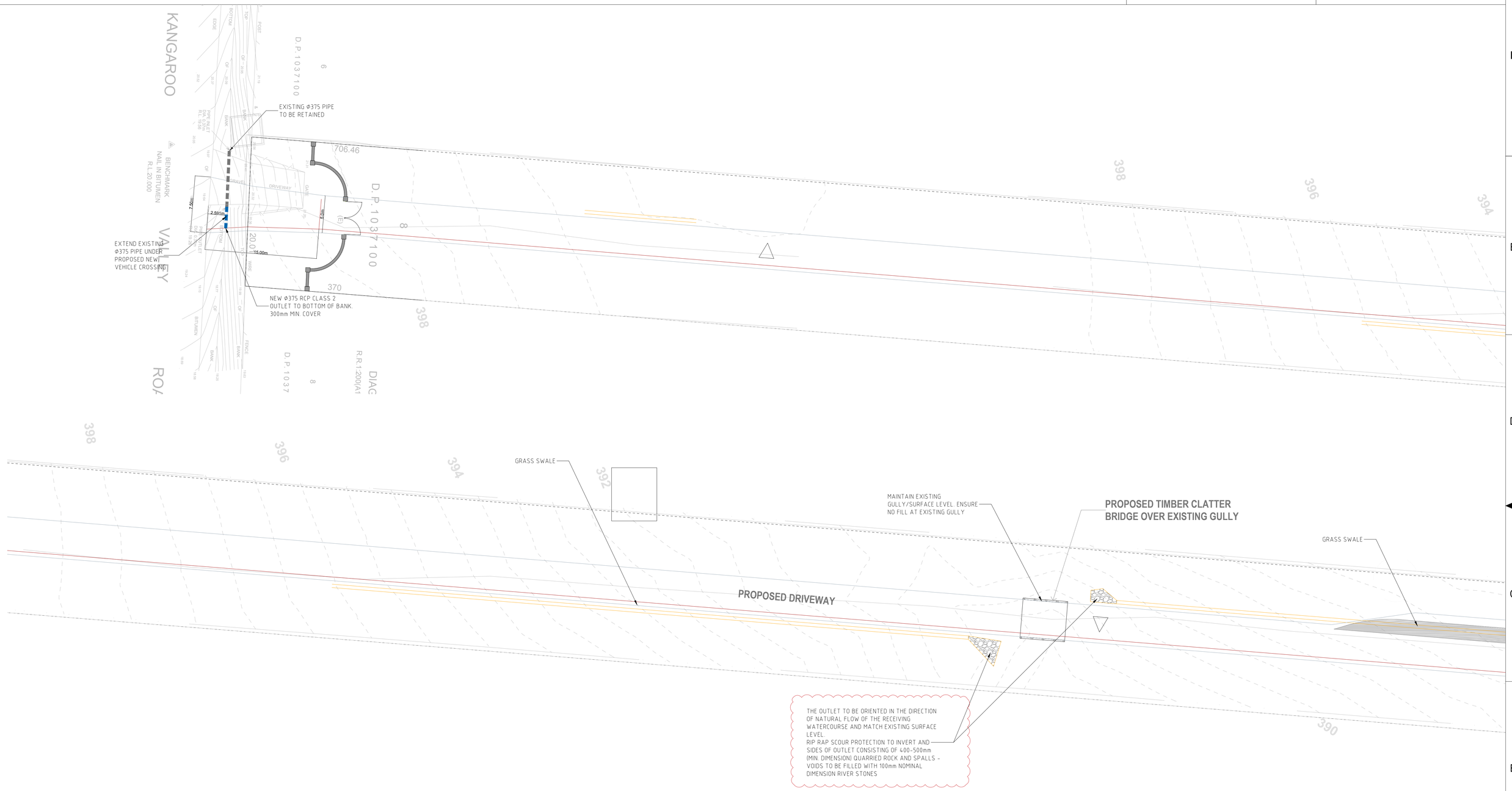
TITLE: DRAINAGE PLAN

DRAWING STATUS

SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO. | DRAWING NO. C2-1 | REVISION NO.

a1



DRIVEWAY DRAINAGE PLAN

1:250@A1

- Ø150 DOWNPIPE OR 100x150 SQR DOWNPIPE WITH BUTTER SIZE OF MINIMUM 24000mm²
- PROVIDE INSPECTION OPENINGS AT 90° BENDS

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ISSUE	REVISION	DATE

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STRUCT.				LANDS			
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CLIENT:

PROJECT:

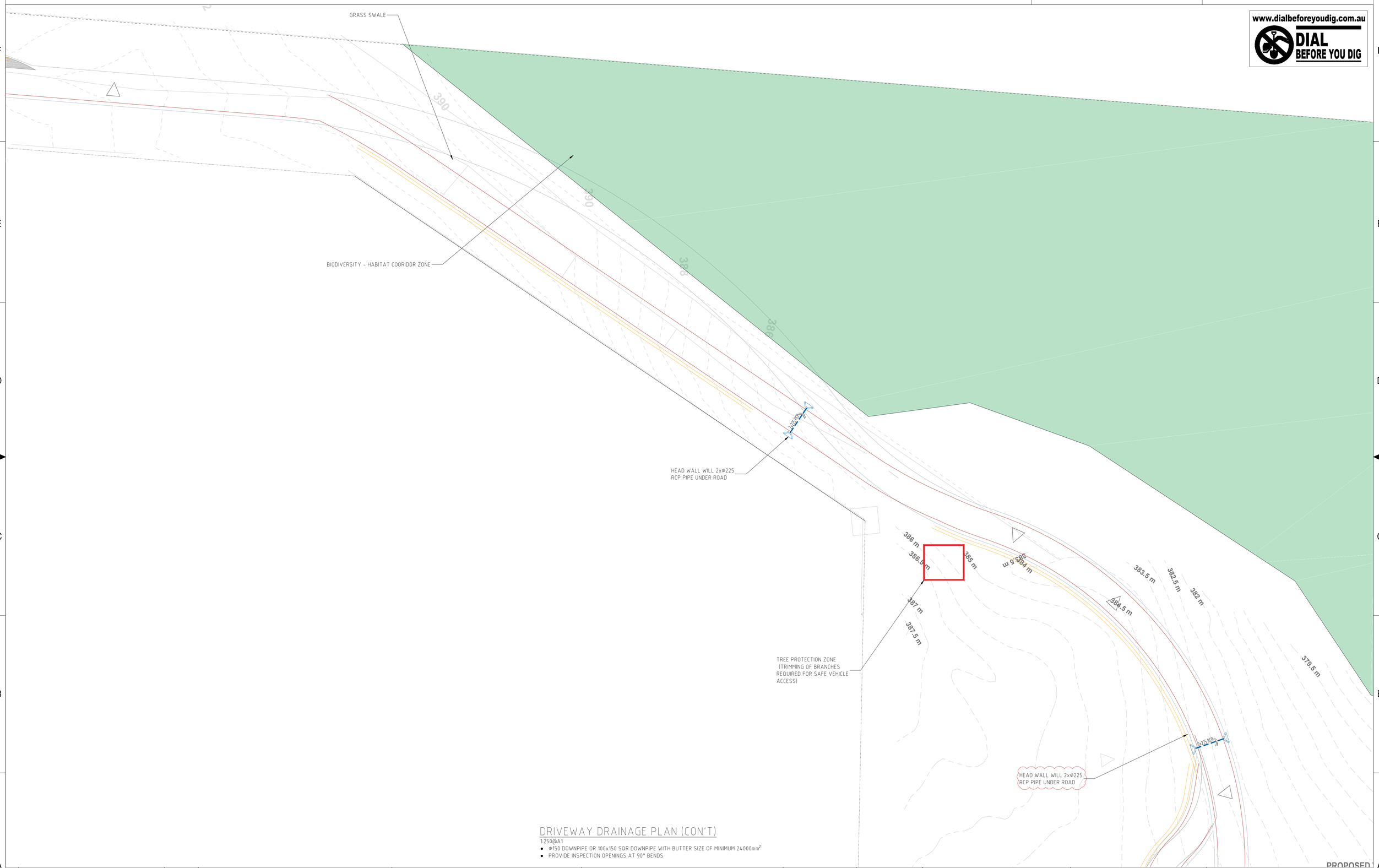
TITLE: DRIVEWAY DRAINAGE PLAN

DRAWING STATUS

SCALE (AT ORIGINAL SIZE): AS NOTED

PROJECT NO.	DRAWING NO.	REVISION NO.
	C3	

a1



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DRIVEWAY DRAINAGE PLAN (CON'T)

1:250@A1

- Φ150 DOWNPIPE OR 100x150 SQR DOWNPIPE WITH BUTTER SIZE OF MINIMUM 24000mm²
- PROVIDE INSPECTION OPENINGS AT 90° BENDS

ISSUE	REVISION	DATE

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PROJECT:

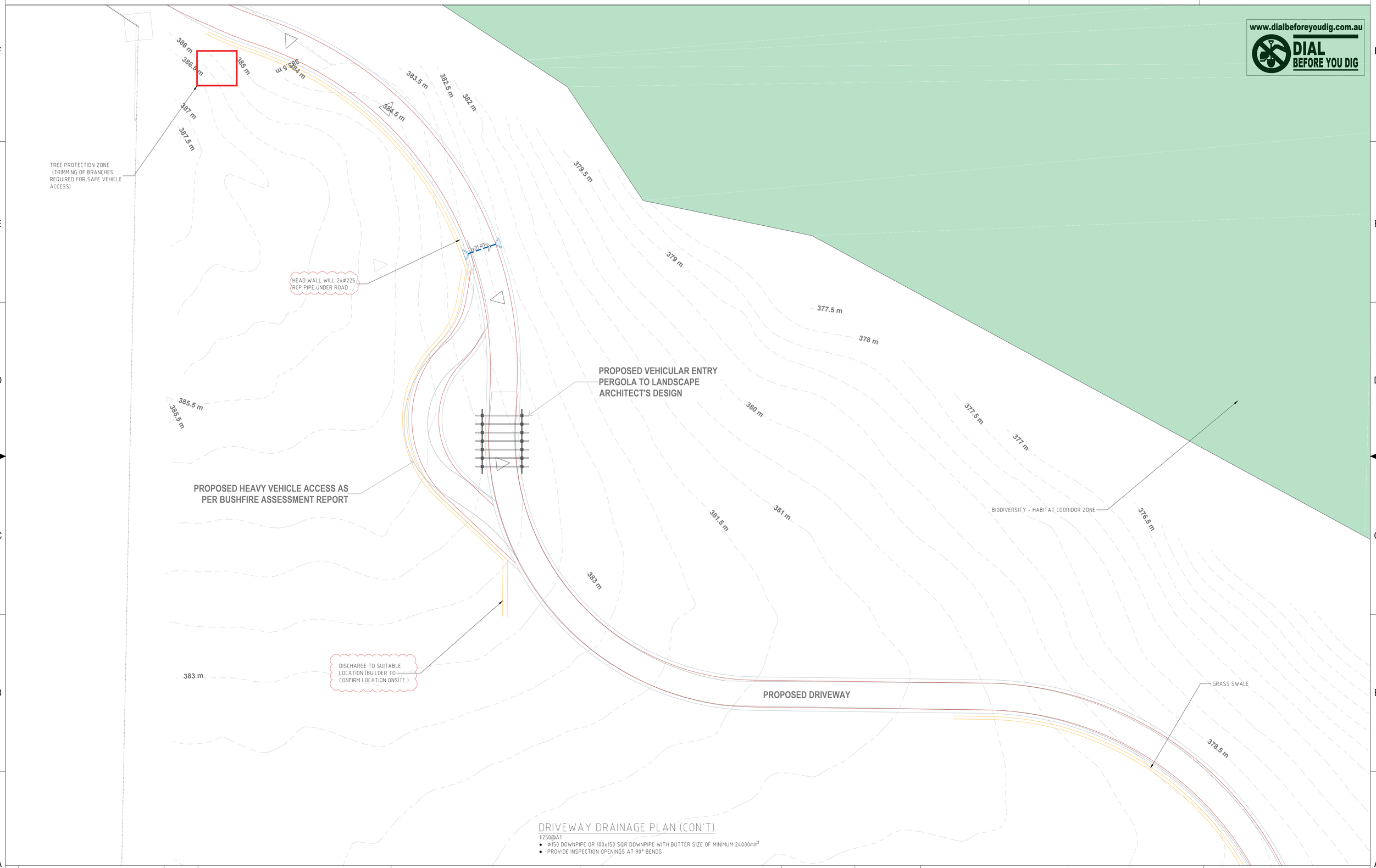
TITLE: DRIVEWAY DRAINAGE PLAN

DRAWING STATUS

SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO. | DRAWING NO. C4 | REVISION NO.

a1



DRIVEWAY DRAINAGE PLAN (CON'T)

1:250@A1

- Φ150 DOWNPIPE OR 100x150 SQR DOWNPIPE WITH BUTTER SIZE OF MINIMUM 24000mm²
- PROVIDE INSPECTION OPENINGS AT 90° BENDS

ISSUE	REVISION	DATE

REFERENCE COORDINATION DRAWING

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QUALITY CONTROL	
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APPROVED:

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PROJECT:

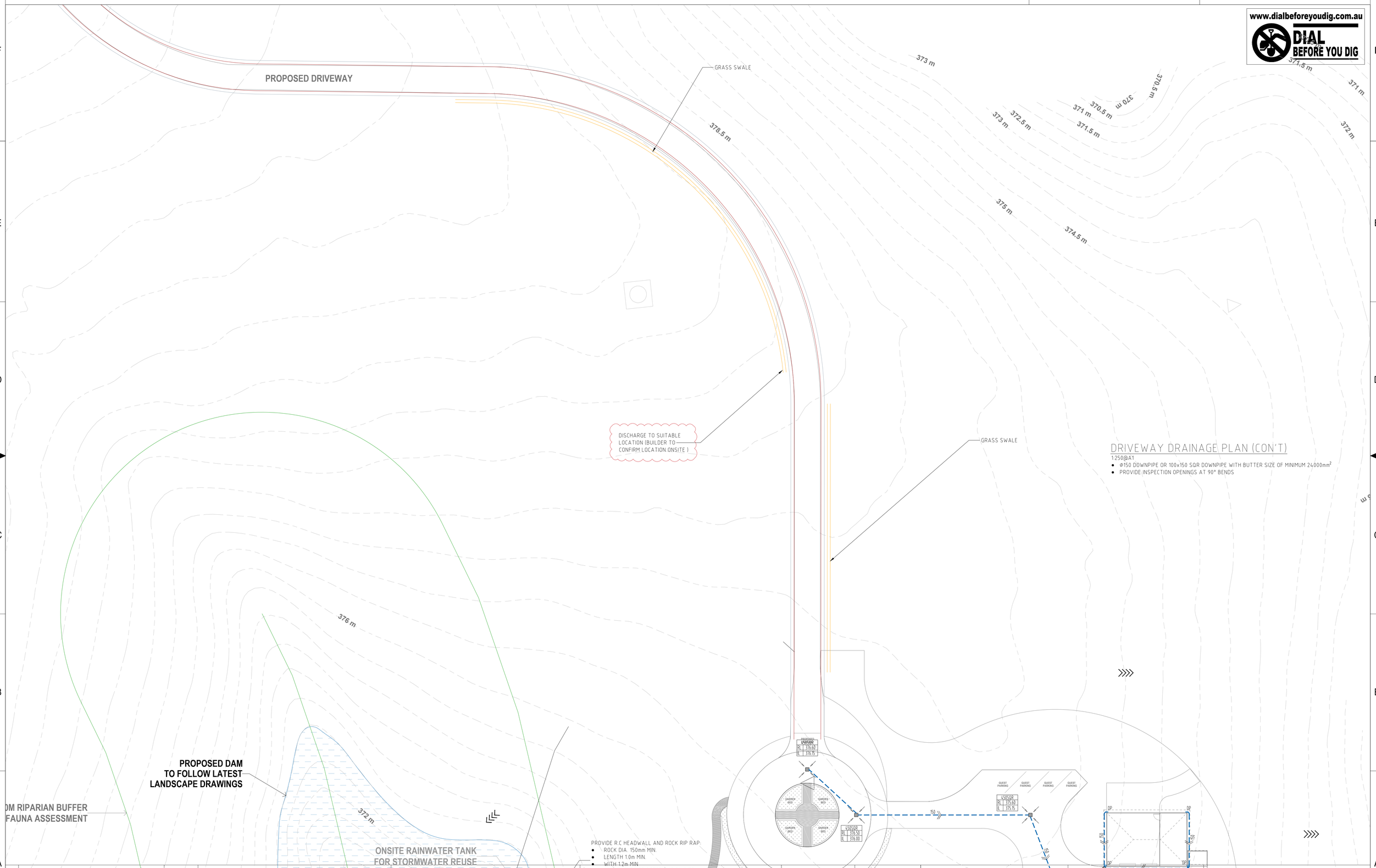
TITLE: DRIVEWAY DRAINAGE PLAN

DRAWING STATUS

SCALE (AT ORIGINAL SIZE): AS NOTED

PROJECT NO. | DRAWING NO. C5 | REVISION NO.

a1



DRIVEWAY DRAINAGE PLAN (CON'T)

1:250@A1

- Ø150 DOWNPIPE OR 100x150 SQR DOWNPIPE WITH BUTTER SIZE OF MINIMUM 24000mm²
- PROVIDE INSPECTION OPENINGS AT 90° BENDS

REFERENCE COORDINATION DRAWING

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DRAWING STATUS

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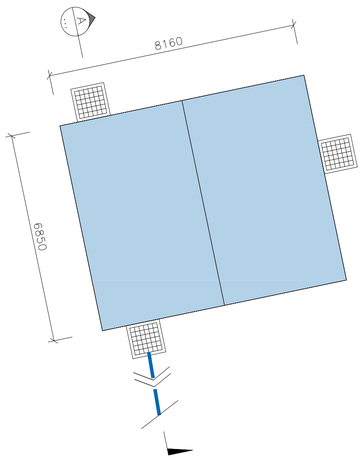
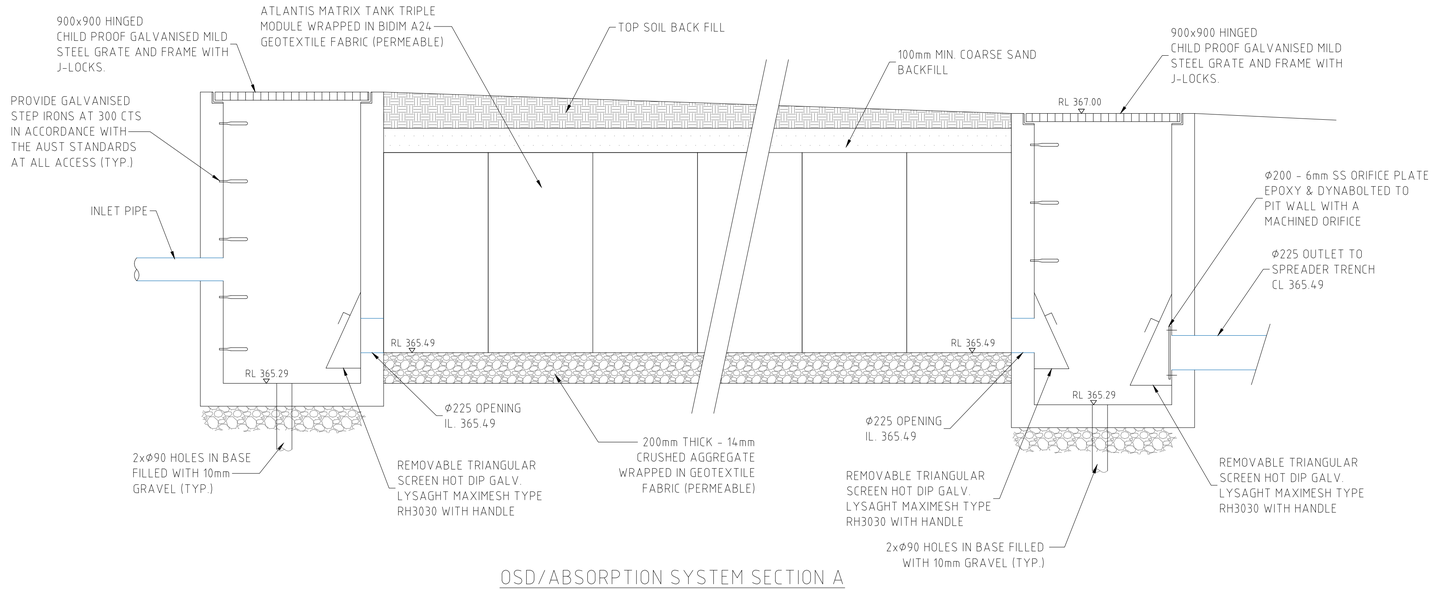
PROJECT NO.	DRAWING NO.	REVISION NO.
	C6	

a1



OSD/ABSORPTION SYSTEM PLAN
SCALE 1:100

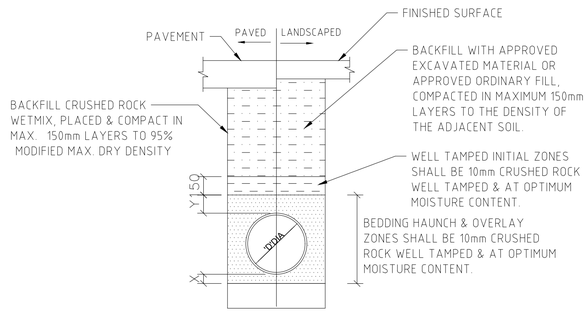


OSD/ABSORPTION SYSTEM SECTION A
SCALE 1:20

Stormwater and On Site Detention Maintenance Schedule

524 Kangaroo Valley Road, Berry

Maintenance Action	Frequency	Responsibility	Procedure
Discharge Control Pit			
Inspect and remove any blockage of orifice	Six Monthly	Maintenance Contractor	Remove grate and screen to inspect orifice. See attached Site Stormwater plan for location of Discharge Control Pit
Check attachment of orifice plate to wall of pit (ensure no gaps exist)	Annually	Maintenance Contractor	Remove grate and screen. Ensure orifice plate is mounted securely, tighten fixings if required and seal any gaps which are present.
Check orifice diameter correct and retains sharp edge.	Five Yearly	Maintenance Contractor	Compare orifice diameter to approved design (see Works as Executed Drawing) and ensure edge of orifice is not pitted or damaged.
Inspect trash screen and clean	Six Monthly	Maintenance Contractor	Remove grate and screen if required to clean it.
Check attachment of screen to wall of pit	Annually	Maintenance Contractor	Remove grate and screen. Ensure screen fixings secure. Repair as required.
Check trash screen for corrosion	Annually	Maintenance Contractor	Remove grate and examine screen for rust or corrosion, especially at corners or welds.
Inspect flap valve and remove any blockages	Six Monthly	Maintenance Contractor	Remove grate. Ensure flap valve moves freely and remove any blockages or debris
Check attachment of flap valve to wall of pit	Annually	Maintenance Contractor	Remove grate. Ensure fixings of valve are secure
Check flap valve seals against wall of pit	Annually	Maintenance Contractor	Remove grate. Fill pit with water and check that flap seals against side of pit with minimal leakage.
Check any hinges on the flap valve to ensure flap moves freely	Six Monthly	Maintenance Contractor	Remove grate. Test valve hinge by moving flap to full extent and allowing it to drop back into normal position. Flap should freely swing at hinge.
Inspect overflow weir and remove any blockage	Six Monthly	Maintenance Contractor	Remove grate and open cover to ventilate underground storage if present. Ensure weir clear of blockages.
Empty trash basket at overflow weir (where present, generally in below ground tanks)	Six Monthly	Maintenance Contractor	Remove grate and ventilate underground storage chamber if present. Empty basket, check fixings are secure and not corroded
Inspect Discharge control pit walls (internal and external, if appropriate) for cracks or spalling	Annually	Maintenance Contractor	Remove grate to inspect walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.
Inspect Discharge Control Pit sump and remove any sediment/sludge	Six Monthly	Maintenance Contractor	Remove grate and screen. Remove sediment/sludge build up and check orifice and flap valve are clear.
Inspect grate for damage or blockage	Six Monthly	Maintenance Contractor	Check both sides of grate for corrosion, (especially corners and welds) damage or blockage
Inspect return pipe from storage and remove any blockage	Six Monthly	Maintenance Contractor	Remove grate and screen. Ventilate underground storage if present. Open flap valve and remove any blockages in return line. Check for sludge/debris on upstream side of return line.
Inspect outlet pipe and remove any blockage	Six Monthly	Maintenance Contractor	Remove grate and screen. Ventilate underground storage if present. Check orifice and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge/debris on upstream side of return line.
Check step irons for corrosion	Annually	Maintenance Contractor	Remove grate. Examine step irons and repair any corrosion or damage or replace step if necessary.
Check fixing of step irons is secure	Six Monthly	Maintenance Contractor	Remove grate and ensure fixings secure prior to placing weight on step iron.
Inspect and remove any blockage of Control Pipe within the Detention Tank	Monthly or following Rain Period	Maintenance Contractor with Confined Space Training and Equipment	Remove grate above the discharge control pipe to inspect the pipe outlet. See attached Site Stormwater layout for location of Discharge Control Pipe
Check attachment of orifice plate to wall of pit (ensure no gaps exist)	Annually	Maintenance Contractor	Remove grate and screen. Ensure orifice plate is mounted securely, tighten fixings if required and seal any gaps which are present.
Check orifice diameter correct and retains sharp edge.	Five Yearly	Maintenance Contractor	Compare orifice diameter to approved design (see Works as Executed Drawing) and ensure edge of orifice is not pitted or damaged.
Inspect trash screen and clean	Six Monthly	Maintenance Contractor	Remove grate and screen if required to clean it.
Check attachment of screen to wall of pit	Annually	Maintenance Contractor	Remove grate and screen. Ensure screen fixings secure. Repair as required.
Check trash screen for corrosion	Annually	Maintenance Contractor	Remove grate and examine screen for rust or corrosion, especially at corners or welds.
Inspect Discharge Control Pit sump and remove any sediment/sludge	Six Monthly	Maintenance Contractor	Remove grate and screen. Remove sediment/sludge build up and check orifice and flap valve are clear.
Inspect grate for damage or blockage	Six Monthly	Maintenance Contractor	Check both sides of grate for corrosion, (especially corners and welds) damage or blockage. Replace if necessary with hot dipped galvanised grate.
Inspect return pipe from storage and remove any blockage	Six Monthly	Maintenance Contractor	Remove grate and screen. Ventilate underground storage if present. Open flap valve and remove any blockages in return line. Check for sludge/debris on upstream side of return line.
Inspect outlet pipe and remove any blockage	Six Monthly	Maintenance Contractor	Remove grate and screen. Ventilate underground storage if present. Check orifice and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge/debris on upstream side of return line.
Check step irons/step ladder for corrosion	Annually	Maintenance Contractor with Confined Space Training and Equipment	Remove grate. Examine step irons and repair any corrosion or damage or replace step if necessary. If corroded, the step irons/ladder shall be replaced with hot dipped galvanised steps/ladder.
Check that fixing of step irons/step ladder is secure	Six Monthly	Maintenance Contractor with Confined Space Training and Equipment	Remove grate and ensure fixings are secure prior to placing weight on step iron/ladder. Repair fixings or replace steps/ladder if necessary.
General			
Inspect gutters of building and remove any debris/sludge	Annually	Maintenance Contractor	Remove any leaves or debris and sludge from gutters of building and flush downpipes of building to remove any blockages. Pits downstream of downpipes to be cleaned of flushed debris.
Inspect pits and trench drains on site and remove debris/litter/sludge	Six Monthly	Maintenance Contractor	Remove grate. Remove any debris/litter/sludge from within pits.

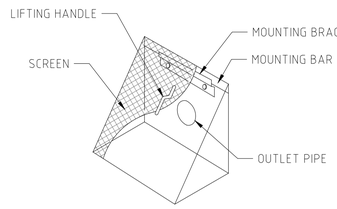


NOTE:
1 REFER TO PIPE LAYING SPECIFICATIONS FOR DETAILS.

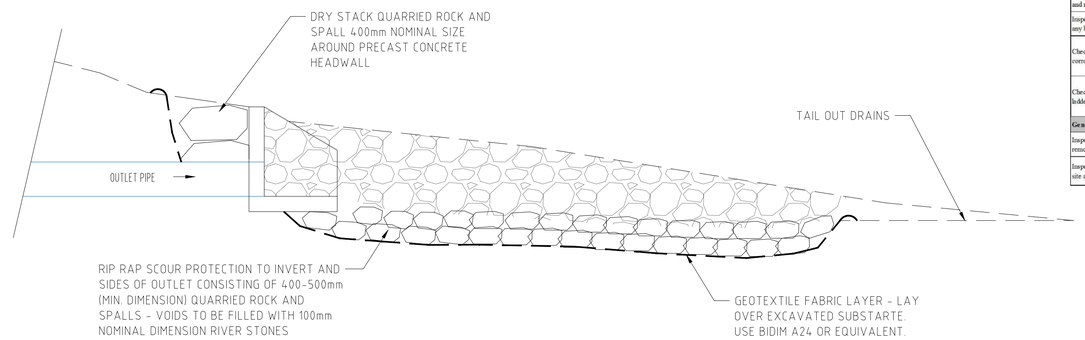
PIPE DIA 'D'	W	X MIN	Y
100-150	300	75	75
225-300	600	75	75

UPVC PIPE

TYPICAL PIPE LAYING DETAIL
NTS



DEBRIS SCREEN DETAILS
SCALE 1:20



DETAIL HEADWALL & OUTLET
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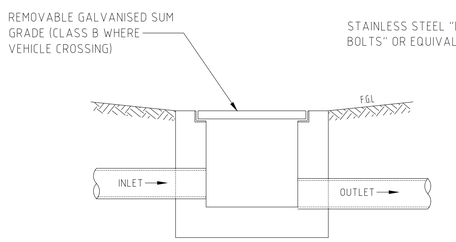
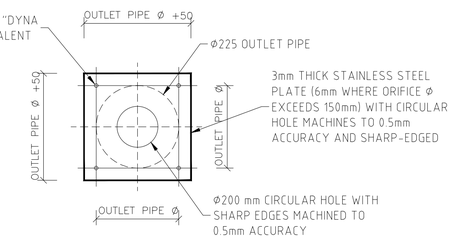
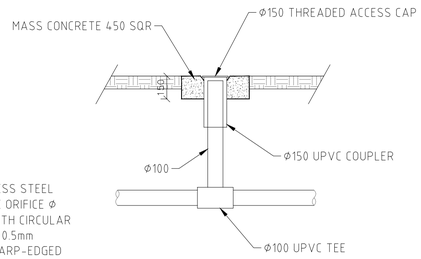


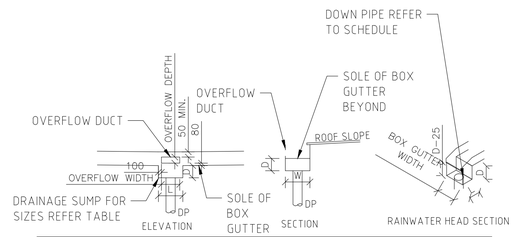
SURFACE PIT DETAILS
SCALE 1:20



ORIFICE PLATE DETAILS
SCALE 1:10

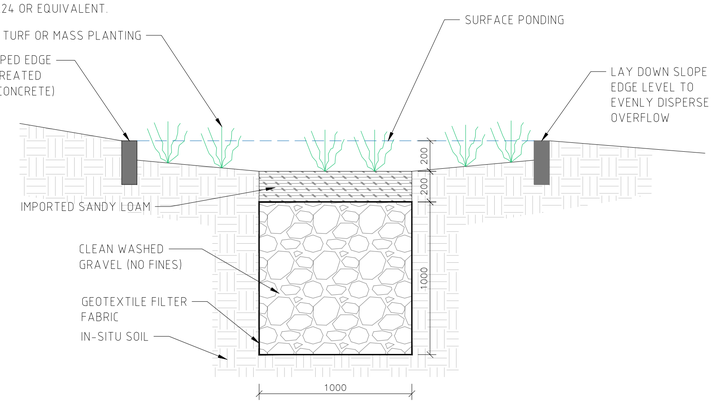


CLEANNING EYE DETAILS
SCALE 1:20



BOX GUTTER, RAINWATER HEAD & SUMP SIZING SCHEDULE					
NODE	BOX GUTTER SIZE	RAINWATER HEAD SIZE	SUMP SIZE	OVERFLOW TO SUMP	DOWNPIPE Ø mm
BG1	300 W x 150 D	250 D x 150 W	400 L x 130 D	N/A	150 OR 150x100

TYPICAL BOX GUTTER DETAILS WITH SUMP OVERFLOW
SCALE 1:20



TYPICAL STORMWATER INFILTRATION TRENCH DETAILS
SCALE 1:20

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STRUCT.				LANDS			
MECH.				CIVIL			
ELEC.				SURVEY			
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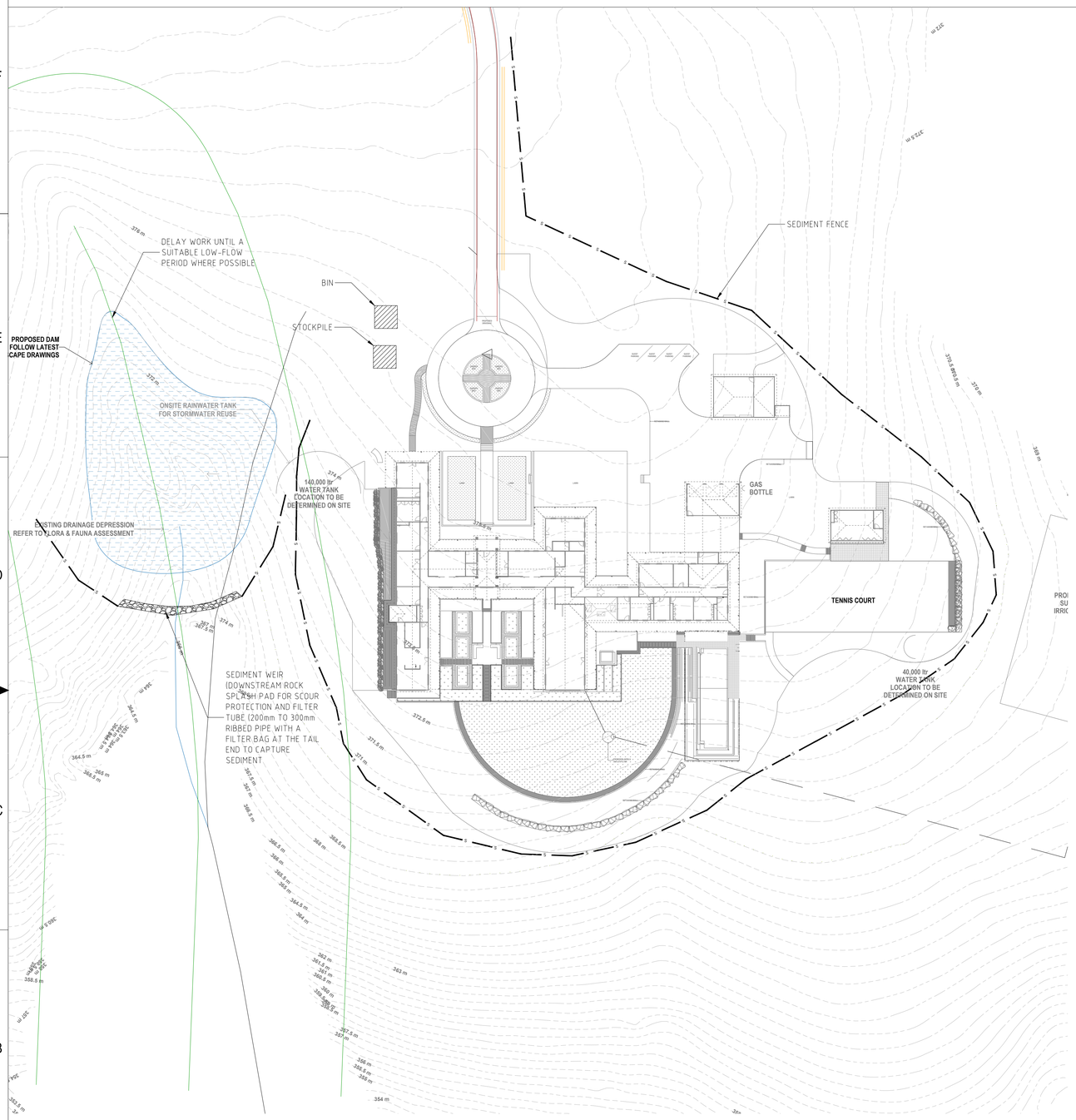
SCALE (AT ORIGINAL SIZE) AS NOTED

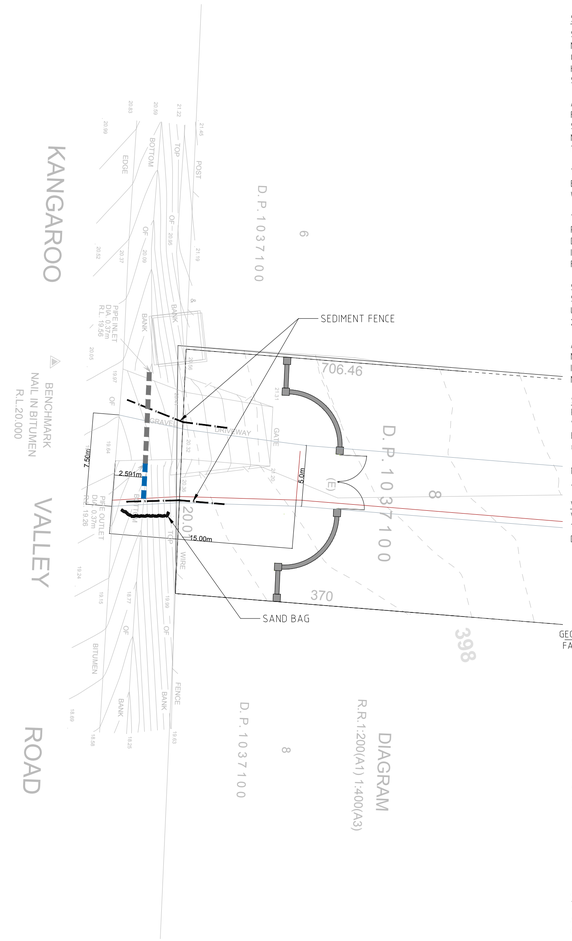
PROJECT NO. DRAWING NO. REVISION NO.

C7

a1



SEDIMENT CONTROL PLAN
SCALE 1:500



SEDIMENT CONTROL PLAN (ROAD RESERVED)
SCALE 1:250

SEDIMENT AND EROSION CONTROL NOTES

SEDIMENT AND EROSION CONTROL SHALL BE EFFECTIVELY MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND SHALL NOT BE REMOVED UNTIL THE SITE HAS BEEN STABILISED OR LANDSCAPED TO THE SUPERINTENDENT'S SATISFACTION.

A SINGLE ALL WEATHER ACCESS WAY WILL BE PROVIDED AT THE FRONT OF THE PROPERTY CONSISTING OF 50-75 AGGREGATE OR SIMILAR MATERIAL AT A MINIMUM THICKNESS OF 150 LAID OVER NEEDLE-PUNCHED GEOTEXTILE FABRIC AND CONSTRUCTED PRIOR TO COMMENCEMENT OF WORKS.

THE CONTRACTOR SHALL ENSURE THAT NO SPOIL OR FILL ENCROACHES UPON ADJACENT AREAS FOR THE DURATION OF WORKS.

THE CONTRACTOR SHALL ENSURE THAT KERB INLETS AND DRAINS RECEIVING STORMWATER SHALL BE PROTECTED AT ALL TIMES DURING DEVELOPMENT. KERB INLET SEDIMENT TRAPS SHALL BE INSTALLED ALONG THE IMMEDIATE VICINITY ALONG THE STREET FRONTAGE.

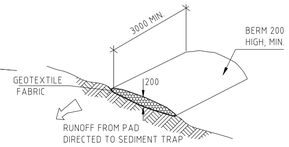
SEDIMENT FENCING SHALL BE SECURED BY POST (WHERE METAL STAR PICKETS ARE USED PLASTIC SAFETY CAPS SHALL BE USED) AT 2000 INTERVALS WITH GEOTEXTILE FABRIC EMBEDDED 200 IN SOIL.

ALL TOPSOIL STRIPPED FROM THE SITE AND STOCKPILED DOES NOT INTERFERE WITH DRAINAGE LINES AND STORMWATER INLETS AND WILL BE SUITABLY COVERED WITH AN IMPERVIOUS MEMBRANE MATERIAL AND SCREENED BY SEDIMENT FENCING.

SOIL CONSERVATION NOTE:
PRIOR TO COMMENCEMENT OF CONSTRUCTION PROVIDE 'SEDIMENT FENCE,' 'SEDIMENT TRAP' AND WASHOUT AREA TO ENSURE THE CAPTURE OF WATER BORNE MATERIAL GENERATED FROM THE SITE.

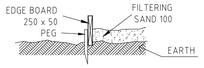
MAINTAIN THE ABOVE DURING THE COURSE OF CONSTRUCTION, AND CLEAR THE 'SEDIMENT TRAP AFTER EACH STORM.

VEHICLE ACCESS TO SITE
VEHICLE ACCESS TO THE BUILDING SITE SHOULD BE RESTRICTED TO A SINGLE POINT SO AS TO REDUCE THE AMOUNT OF SOIL DEPOSITED ON THE STREET PAVEMENT.

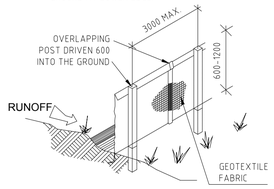


SEDIMENT TRAP
1000 x 1000 WIDE 500 DEEP PIT, LOCATED AT THE LOWEST POINT TO THE TRAP SEDIMENT.

WASHOUT AREA
TO BE 1800 x 1800 ALLOCATED FOR THE WASHING OF TOOL & EQUIPMENT.



SEDIMENT FENCE
PROVIDE 'SEDIMENT FENCE ON DOWN SLOPE BOUNDARY AS SHOWN ON PLAN. FABRIC TO BE BURIED BELOW GROUND AT LOWER EDGE.



GENERAL NOTES
THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES, UNO (UNLESS NOTED OTHERWISE).

NO DIMENSION SHALL BE OBTAINED BY SCALING THE DRAWINGS.

ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF THE WORK.

DURING EXCAVATION WORK THE STRUCTURE SHALL BE MAINTAINED IN A STABLE AND NO PART SHALL BE OVERSTRESSED.

ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS & THE SPECIFICATION.

EXISTING SERVICES WHERE SHOWN HAVE BEEN PLOTTED FROM SUPPLIED DATA AND SUCH THEIR ACCURACY CAN NOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK.

ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACK FILLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL COUNCIL.

ALL TRENCH BACK FILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.

ON COMPLETION OF STORMWATER INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS, UNLESS DIRECTED OTHERWISE.

CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS UNLESS DIRECTED OTHERWISE.

STORMWATER DRAINAGE
THE STORMWATER DRAINAGE DESIGN HAS BEEN CARRIED OUT IN ACCORDANCE WITH AS/NZS 3500.3 - 1990 "STORMWATER DRAINAGE" & AS/NZS 3500.3.2-1998 "STORMWATER DRAINAGE - ACCEPTABLE SOLUTIONS".

ANY VARIATIONS TO THE NOMINATED LEVELS SHALL BE REFERRED TO ENGINEER IMMEDIATELY.

ANY VARIATIONS TO SPECIFIED PRODUCTS OR DETAILS SHALL BE REFERRED TO THE ENGINEER FOR APPROVAL.

DOWN PIPES SHALL BE A MINIMUM OF DN100 SW GRADE UPVC OR 100X100 COLORBOND/ZINCALUME STEEL, UNO.

BOX COLORBOND OR ZINCALUME STEEL GUTTERS SHALL BE A MINIMUM OF 450 WIDE X 150 DEEP.

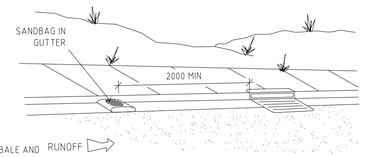
EAVES GUTTERS SHALL BE A MINIMUM OF 125 WIDE X 100 DEEP (OR OF EQUIVALENT AREA) COLORBOND OR ZINCALUME STEEL.

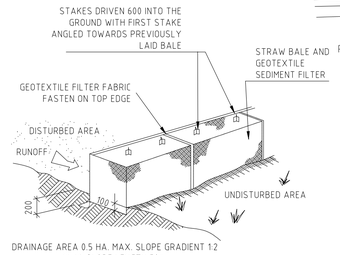
SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS & EMBANMENTS, WITH THE LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM.

BUILDING MATERIAL STOCKPILES
ALL STOCKPILES OF BUILDING MATERIAL SUCH AS SAND AND SOIL MUST BE PROTECTED TO PREVENT SCOUR AND EROSION.

THEY SHOULD NEVER BE PLACED IN THE STREET GUTTER WHERE THEY WILL WASH AWAY WITH THE FIRST RAINSTORM.

SANDBAG KERB SEDIMENT TRAP
IN CERTAIN CIRCUMSTANCES EXTRA SEDIMENT TRAPPING MAY BE NEEDED IN THE STREET GUTTER.





DRAINAGE AREA 0.5 HA. MAX. SLOPE GRADIENT 1:2
MAX. SLOPE LENGTH 50m.

NOTE S
PROTECTIVE BUNTING TO BE INSTALLED TO TREE PROTECTION ONES PRIOR TO WORKS BEING UNDERTAKEN, AND MUST REMAIN IN PLACE UNTIL ALL WORKS ARE COMPLETED.

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2 0 2 4 6 8 10 METRES
SCALE 1 : 100

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ELEC.				SURVEY			
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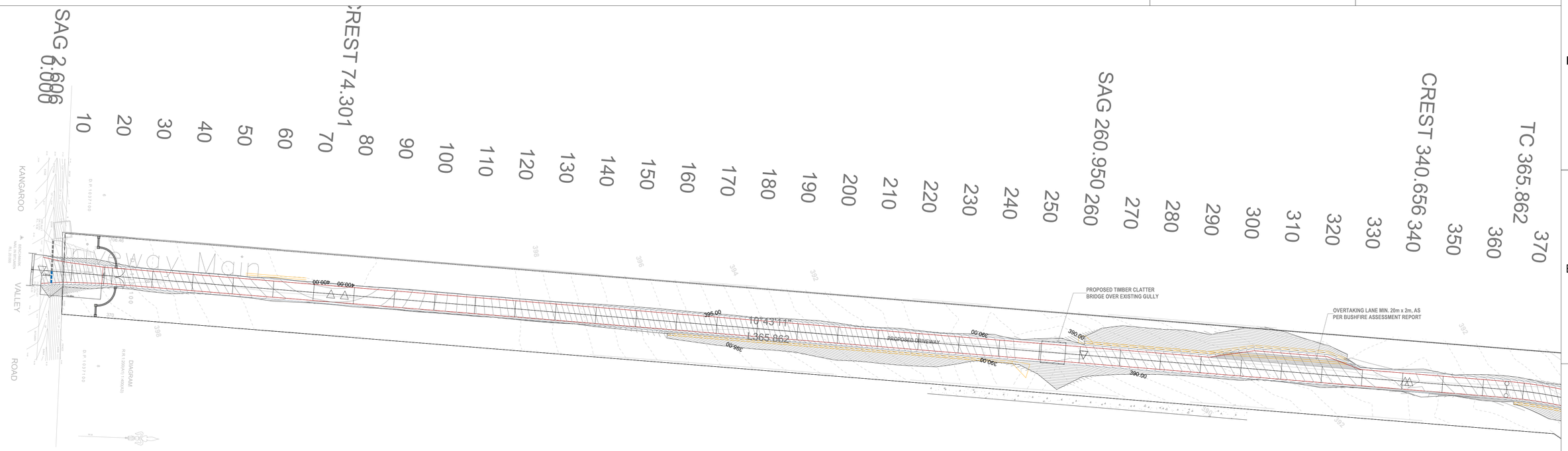
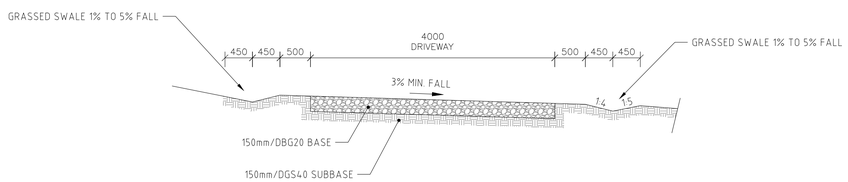
a1



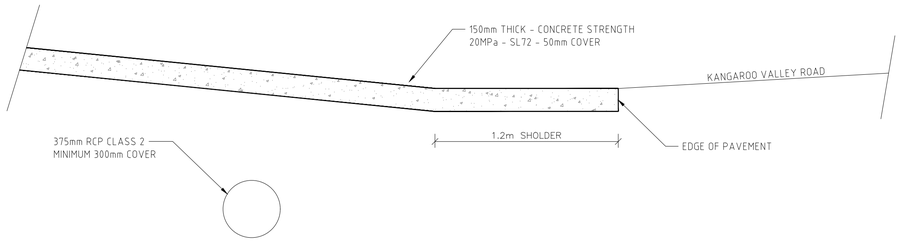
PROPOSED DRIVEWAY CIVIL PLAN

1:500@A1



TYPICAL GRAVEL ACCESS ROAD SECTION

1:20@A1



TYPICAL VEHICLE CROSSING SECTION

1:20@A1

LEGEND

DESIGN CONTOUR

EXISTING CONTOUR

2 0 2 4 6 8 10 METRES

SCALE 1 : 100

CUT & FILL SUMMARY

TOTAL CUT	-3329.835
TOTAL FILL	3867.043
TOTAL BALANCE	537.208

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TITLE: PROPOSED DRIVEWAY CIVIL PLAN

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SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO.	DRAWING NO.	REVISION NO.
	C9	

a1

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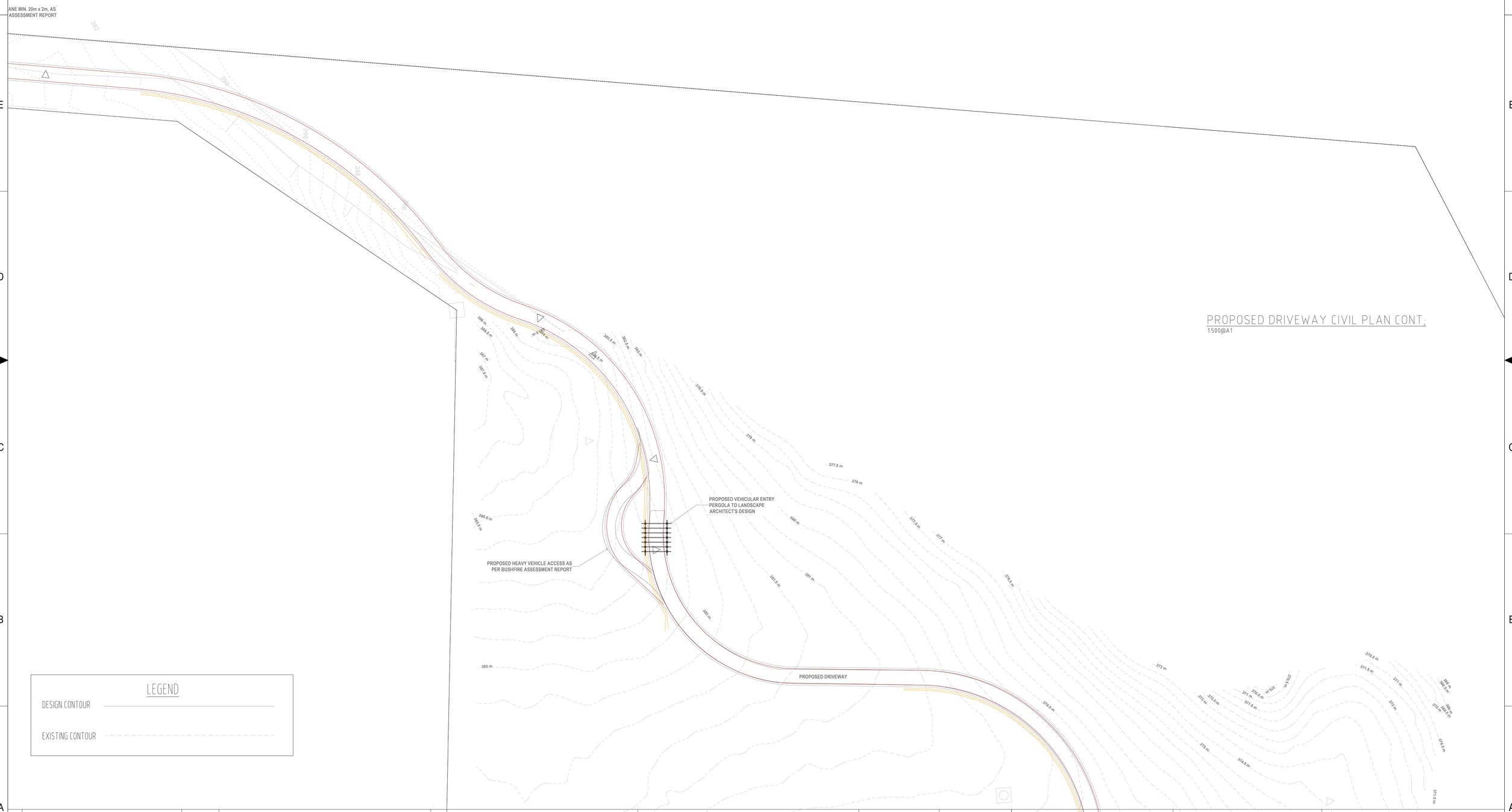

PROPOSED DRIVEWAY CIVIL PLAN CONT;
1:500@A1

LEGEND

DESIGN CONTOUR

EXISTING CONTOUR

ISSUE	REVISION	DATE

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ELEC.				SURVEY			
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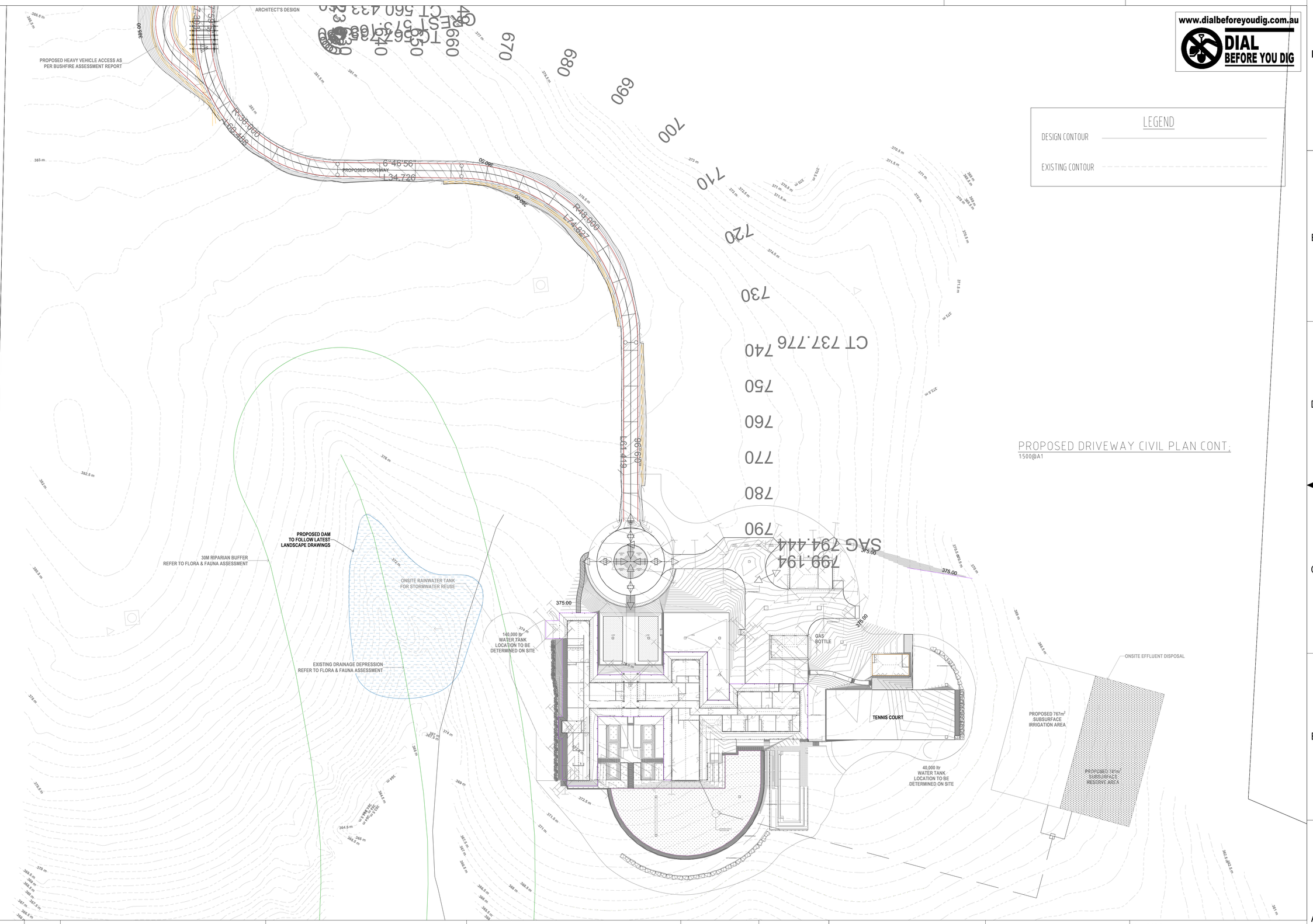

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PROPOSED DRIVEWAY CIVIL PLAN

DRAWING STATUS

SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO. | DRAWING NO. C11 | REVISION NO.

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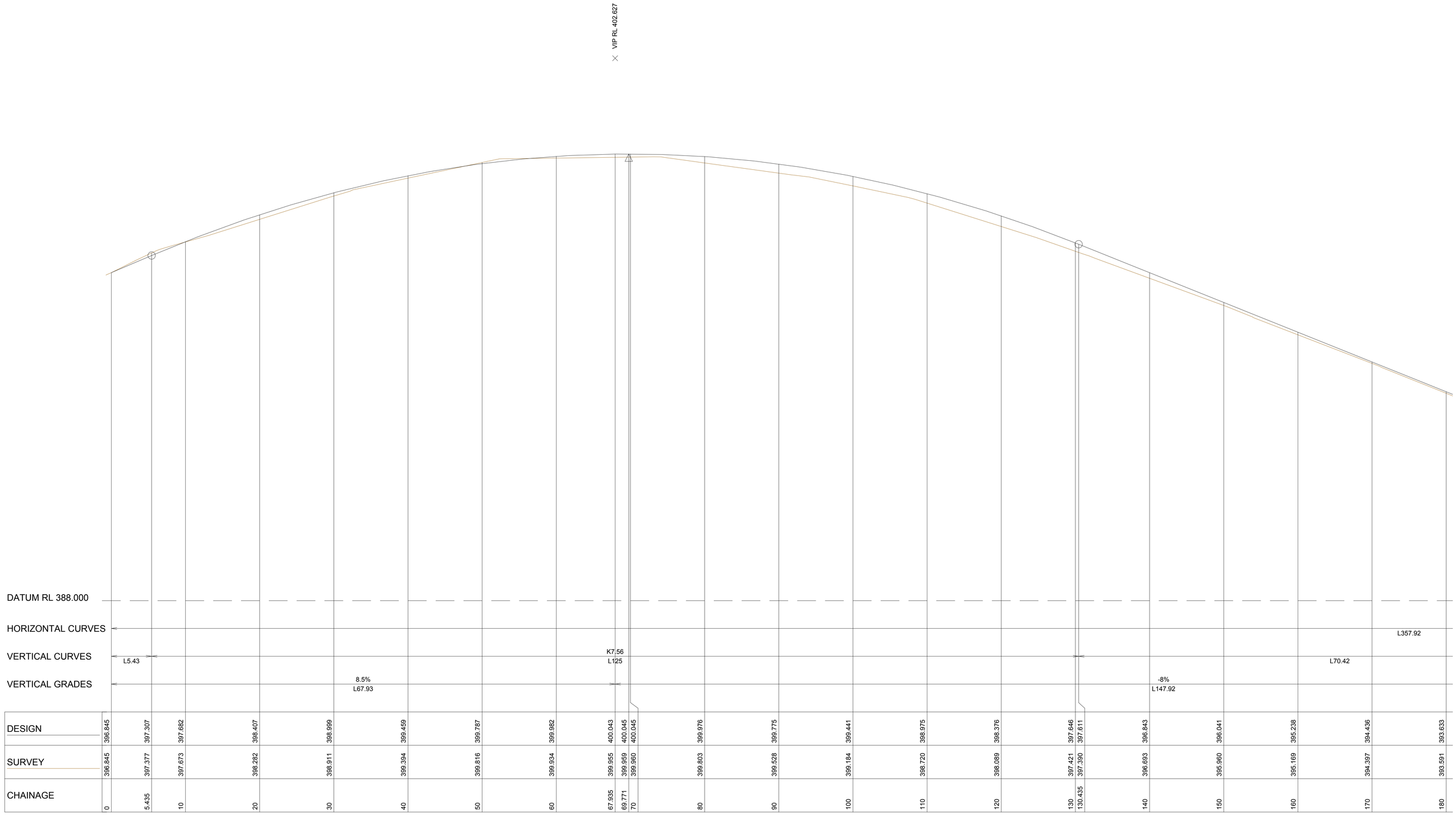
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DATUM RL 388.000
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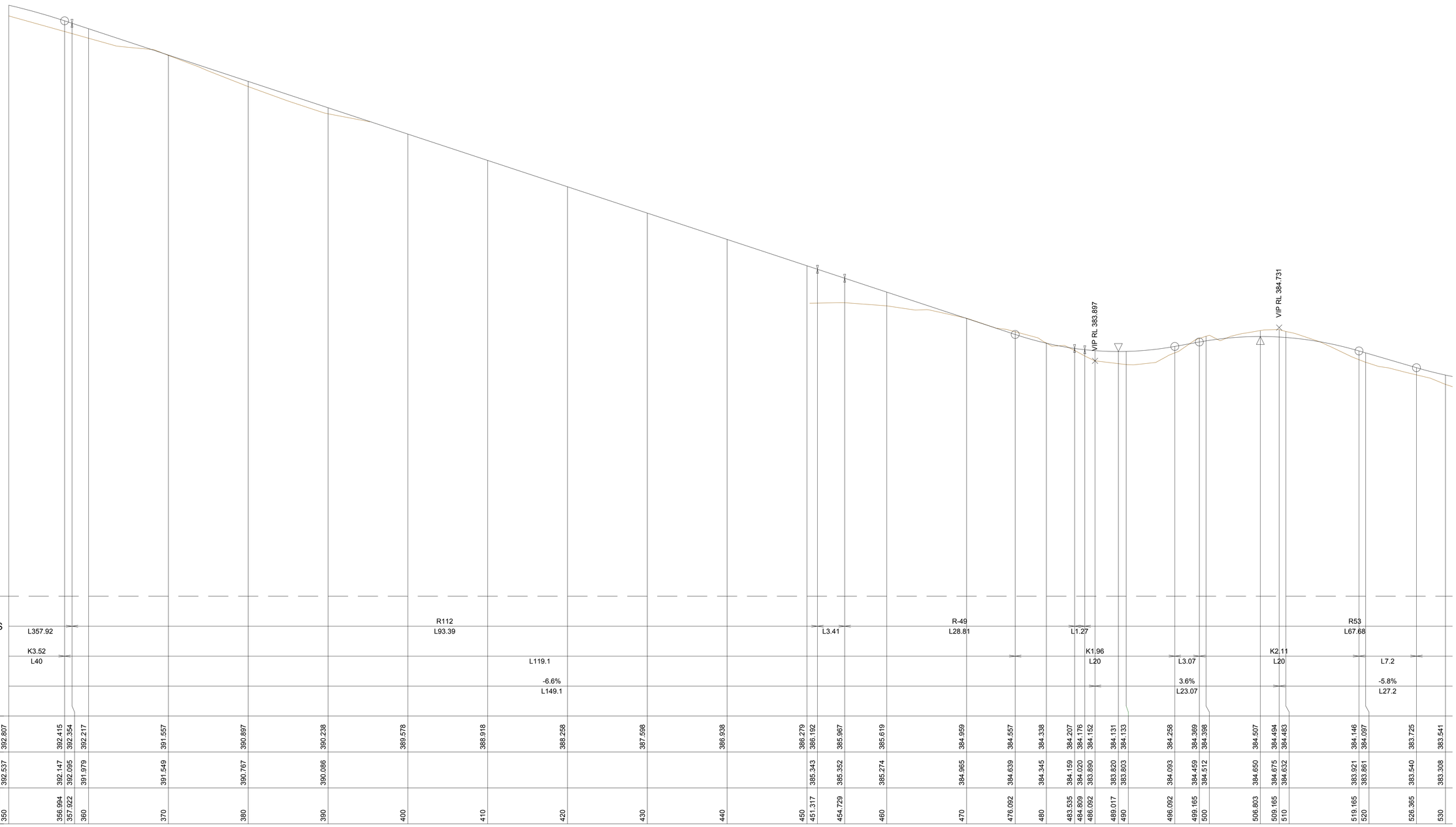
VERTICAL CURVES
VERTICAL GRADES
L5.43
K7.56
L125
L357.92
L70.42
8.5%
L67.93
-8%
L147.92

| | | |



Driveway Main - LONGITUDINAL SECTION

A1 HORZ SCALE 1:250
A1 VERT SCALE 1:50

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PROPOSED DRIVEWAY
LONGITUDINAL SECTION

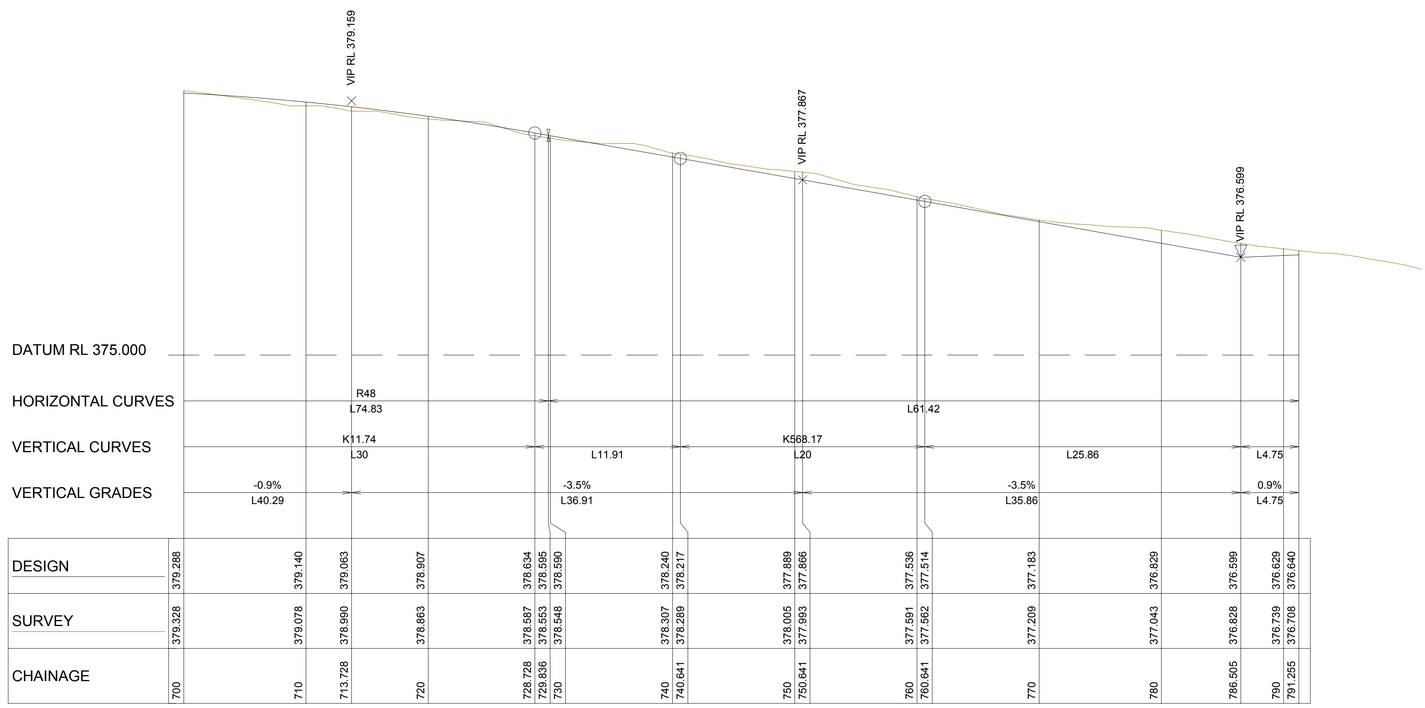
DRAWING STATUS

SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO. DRAWING NO. REVISION NO.

C13

a1



DESIGN	379.288	379.140	379.063	378.907	378.634	378.595	378.590	378.240	378.217	377.889	377.866	377.536	377.514	377.183	376.829	376.599	376.629	376.640						
SURVEY	379.328	379.078	378.990	378.863	378.587	378.553	378.548	378.307	378.289	378.005	377.993	377.591	377.562	377.209	377.043	376.828	376.739	376.708						
CHAINAGE	700	710	713.728	720	728.728	729.836	730	740	740.641	750	750.641	760	760.641	770	780	786.505	790	791.255						

Driveway Main - LONGITUDINAL SECTION

A1 HORZ SCALE 1:250
A1 VERT SCALE 1:50

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ISSUE	REVISION	DATE

REFERENCE COORDINATION DRAWING

DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.		DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.				FIRE			
STRUCT.				LANDS			
MECH.				CIVIL			
ELEC.				SURVEY			
HYD.							

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MOB: 0419 041 401

QUALITY CONTROL
DRAWN DATE
DESIGNED DATE
CHECKED DATE

APPROVED:

CLIENT:

PROJECT:

TITLE:
PROPOSED DRIVEWAY
LONGITUDINAL SECTION

DRAWING STATUS

SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO. DRAWING NO. REVISION NO.
C14

a1

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Centreline Data
X = 284654.496
Y = 6150585.264
Z = 399.933
DATUM RL 399.500

2.71% -2.71%

DESIGN	400.003	400.003	400.001	399.987	399.933	399.879	399.866	399.925	399.925
SURVEY	400.003	400.003	400.001	399.996	399.965	399.935	399.928	399.866	399.925
OFFSET	-2.506	-2.500	-2.000	-2.000	0.000	2.000	2.500	2.738	2.738

CHAINAGE 80

Centreline Data
X = 284650.776
Y = 6150565.613
Z = 399.798
DATUM RL 399.000

3% -3%

DESIGN	399.959	399.873	399.858	399.798	399.738	399.723	399.838	399.838
SURVEY	399.959	399.952	399.942	399.903	399.859	399.848	399.723	399.838
OFFSET	-2.845	-2.500	-2.000	0.000	2.000	2.500	2.961	2.961

CHAINAGE 60

Centreline Data
X = 284647.056
Y = 6150545.962
Z = 399.033
DATUM RL 398.500

3% -3%

DESIGN	399.129	399.108	399.093	399.033	398.973	398.958	398.951
SURVEY	399.129	399.126	399.108	399.034	398.967	398.952	398.951	398.951
OFFSET	-2.584	-2.500	-2.000	0.000	2.000	2.500	2.527	2.527

CHAINAGE 40

Centreline Data
X = 284643.336
Y = 6150526.311
Z = 397.651
DATUM RL 397.000

3% -3%

DESIGN	397.918	397.726	397.711	397.651	397.591	397.576	397.663
SURVEY	397.918	397.888	397.868	397.789	397.704	397.680	397.576	397.663
OFFSET	-3.270	-2.500	-2.000	0.000	2.000	2.500	2.849	2.849

CHAINAGE 20

Centreline Data
X = 284640.101
Y = 6150509.225
Z = 395.941
DATUM RL 395.500

4.1% -4.4%

DESIGN	396.103	396.095	396.074	395.941	395.798	395.776	395.768
SURVEY								
OFFSET	-3.782	-3.749	-3.249	0.000	3.249	3.749	3.781	3.781

CHAINAGE 2.61

Centreline Data
X = 284673.096
Y = 6150683.519
Z = 394.126
DATUM RL 393.500

-3% 3% 1 in 4

DESIGN	394.076	394.051	394.066	394.126	394.186	394.201	394.088	394.201	394.620
SURVEY	394.076	394.081	394.106	394.227	394.383	394.422	394.456	394.491	394.620	394.620
OFFSET	-2.601	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	5.079	5.079

CHAINAGE 180

Centreline Data
X = 284669.376
Y = 6150663.868
Z = 395.665
DATUM RL 395.000

-3% 3%

DESIGN	395.684	395.590	395.605	395.665	395.725	395.740	395.627	395.740	395.964
SURVEY	395.684	395.699	395.719	395.797	395.862	395.874	395.895	395.918	395.964	395.964
OFFSET	-2.879	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	4.298	4.298

CHAINAGE 160

Centreline Data
X = 284665.656
Y = 6150644.217
Z = 397.203
DATUM RL 396.500

-3% 3%

DESIGN	397.203	397.128	397.143	397.203	397.263	397.278	397.348
SURVEY	397.203	397.211	397.225	397.279	397.329	397.341	397.348	397.348
OFFSET	-2.797	-2.500	-2.000	0.000	2.000	2.500	2.779	2.779

CHAINAGE 140

Centreline Data
X = 284661.936
Y = 6150624.566
Z = 398.594
DATUM RL 398.000

-1.61% 1.61%

DESIGN	398.568	398.553	398.561	398.594	398.626	398.634	398.605
SURVEY	398.568	398.568	398.572	398.590	398.605	398.605	398.605	398.605
OFFSET	-2.556	-2.500	-2.000	0.000	2.000	2.500	2.614	2.614

CHAINAGE 120

Centreline Data
X = 284658.216
Y = 6150604.915
Z = 399.506
DATUM RL 399.000

0.55% -0.55%

DESIGN	399.494	399.520	399.517	399.506	399.495	399.492	399.462
SURVEY	399.494	399.495	399.495	399.473	399.464	399.462	399.462	399.462
OFFSET	-2.603	-2.500	-2.000	0.000	2.000	2.500	2.623	2.623

CHAINAGE 100

Centreline Data
X = 284687.976
Y = 6150762.123
Z = 389.725
DATUM RL 388.000

2.41% -2.41% 1 in -4

DESIGN	389.721	389.785	389.773	389.725	389.677	389.665	388.792
SURVEY	389.721	389.681	389.605	389.348	389.174	389.131	388.792	388.792
OFFSET	-2.758	-2.500	-2.000	0.000	2.000	2.500	5.991	5.991

CHAINAGE 260

Centreline Data
X = 284684.256
Y = 6150742.472
Z = 389.983
DATUM RL 389.000

-1.59% 1.59% 1 in -4

DESIGN	389.824	389.943	389.951	389.983	390.015	390.023	389.766
SURVEY	389.824	389.801	389.777	389.604	389.696	389.719	389.766	389.766
OFFSET	-2.976	-2.500	-2.000	0.000	2.000	2.500	3.525	3.525

CHAINAGE 240

Centreline Data
X = 284680.536
Y = 6150722.821
Z = 391.109
DATUM RL 390.500

-3% 3% 1 in 4

DESIGN	390.972	391.034	391.049	391.109	391.169	391.184	391.072	391.184	391.847
SURVEY	390.972	390.981	391.000	391.016	391.290	391.359	391.421	391.483	391.847	391.847
OFFSET	-2.750	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	6.050	6.050

CHAINAGE 220

Centreline Data
X = 284676.816
Y = 6150703.170
Z = 392.587
DATUM RL 391.500

-3% 3% 1 in 4

DESIGN	392.398	392.512	392.527	392.587	392.647	392.662	392.549	392.662	393.363
SURVEY	392.398	392.439	392.485	392.626	392.860	392.920	392.974	393.028	393.363	393.363
OFFSET	-2.957	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	6.206	6.206

CHAINAGE 200

Centreline Data
X = 284702.856
Y = 6150840.727
Z = 392.915
DATUM RL 392.500

0.88% -0.88%

DESIGN	393.036	393.037	392.932	392.915	392.897	392.893	392.916
SURVEY	393.036	393.052	393.072	393.094	392.957	392.923	392.916	392.916
OFFSET	-2.899	-2.500	-2.000	0.000	2.000	2.500	2.595	2.595

CHAINAGE 340

Centreline Data
X = 284699.136
Y = 6150821.076
Z = 392.441
DATUM RL 391.500

1 in 4 3% -3%

DESIGN	392.962	392.591	392.479	392.591	392.576	392.441	392.381	392.366	392.190
SURVEY	392.962	392.894	392.874	392.853	392.831	392.537	392.303	392.245	392.190	392.190
OFFSET	-7.383	-5.900	-5.450	-5.000	-4.500	0.000	2.000	2.500	3.207	3.207

CHAINAGE 320

Centreline Data
X = 284695.416
Y = 6150801.425
Z = 391.521
DATUM RL 390.500

1 in 4 3% -3%

DESIGN	392.818	391.651	391.539	391.651	391.636	391.521	391.461	391.446	391.302
SURVEY	392.818	392.315	392.274	392.234	392.189	391.767	391.465	391.389	391.302	391.302
OFFSET	-9.902	-5.236	-4.786	-4.336	-3.836	0.000	2.000	2.500	3.076	3.076

CHAINAGE 300

Centreline Data
X = 284691.696
Y = 6150781.774
Z = 390.601
DATUM RL 389.500

1 in 4 3% -3%

DESIGN	391.806	390.676	390.564	390.676	390.661	390.601	390.541	390.526	390.337
SURVEY	391.806	391.253	391.199	391.144	391.084	390.810	390.521	390.449	390.337	390.337
OFFSET	-7.919	-3.400	-2.950	-2.500	-2.000	0.000	2.000	2.500	3.256	3.256

CHAINAGE 280

ISSUE	REVISION	DATE

REFERENCE COORDINATION DRAWING

DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.		DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.				FIRE			
STRUCT.				LANDS			
MECH.				CIVIL			
ELEC.				SURVEY			
HYD.							

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MOB: 0419 041 401

QUALITY CONTROL
DRAWN DATE
DESIGNED DATE
CHECKED DATE

APPROVED:

CLIENT:

PROJECT:

TITLE: DRIVEWAY CROSS SECTION

DRAWING STATUS

SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO. DRAWING NO. REVISION NO.
C15

a1

CONCEPT PLAN FOR COORDINATION

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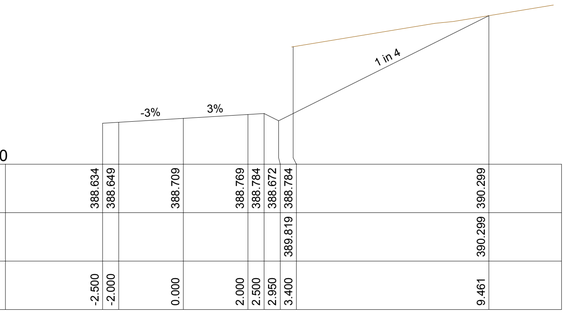
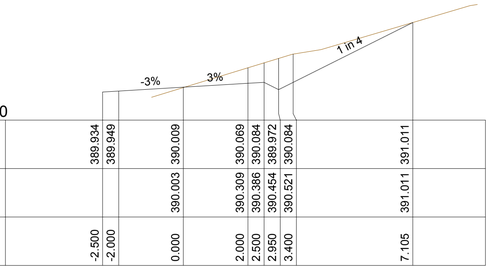
Centreline Data
X = 284729.957
Y = 6150914.897
Z = 388.709
DATUM RL 388.000



DESIGN	388.634	388.649	388.709	388.769	388.784	388.672	388.784	390.299	
SURVEY						389.819	390.299	
OFFSET	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	9.461	

CHAINAGE 420

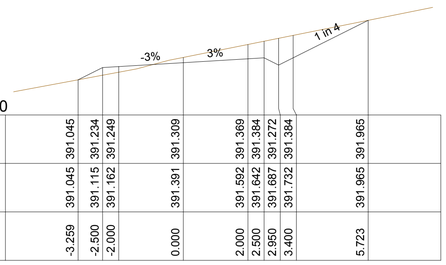
Centreline Data
X = 284718.991
Y = 6150898.203
Z = 390.009
DATUM RL 389.500



DESIGN	389.934	389.949	390.009	390.069	390.084	389.972	390.084	391.011	
SURVEY			390.003	390.309	390.386	390.454	390.521	391.011	
OFFSET	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	7.105	

CHAINAGE 400

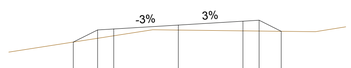
Centreline Data
X = 284711.165
Y = 6150879.826
Z = 391.309
DATUM RL 390.500



DESIGN	391.045	391.234	391.249	391.309	391.369	391.384	391.272	391.384	391.965	
SURVEY	391.045	391.115	391.162	391.391	391.592	391.642	391.687	391.732	391.965	
OFFSET	-3.259	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	5.723	

CHAINAGE 380

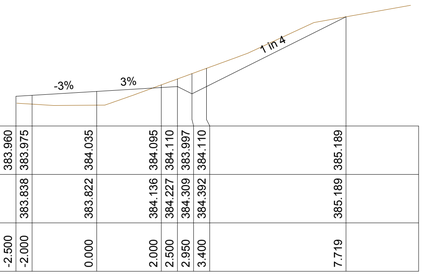
Centreline Data
X = 284706.577
Y = 6150860.378
Z = 392.500
DATUM RL 391.500



DESIGN	392.237	392.425	392.440	392.500	392.560	392.575	392.403	
SURVEY	392.237	392.295	392.334	392.423	392.411	392.408	392.403	
OFFSET	-3.252	-2.500	-2.000	0.000	2.000	2.500	3.185	

CHAINAGE 360

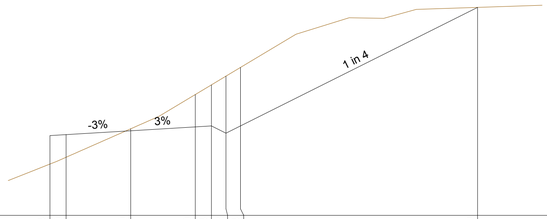
Centreline Data
X = 284784.987
Y = 6150971.305
Z = 384.035
DATUM RL 383.500



DESIGN	383.960	383.975	384.035	384.095	384.110	383.997	384.110	385.189	
SURVEY	383.838	383.822	384.136	384.227	384.309	384.392	385.189	
OFFSET	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	7.719	

CHAINAGE 500

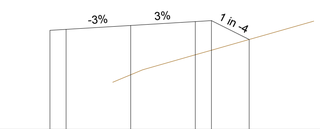
Centreline Data
X = 284774.984
Y = 6150954.036
Z = 384.809
DATUM RL 383.500



DESIGN	384.734	384.749	384.809	384.869	384.884	384.772	384.884	386.719	
SURVEY	384.294	384.399	384.840	385.370	385.520	385.655	385.769	386.719	
OFFSET	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	10.741	

CHAINAGE 480

Centreline Data
X = 284759.822
Y = 6150941.187
Z = 386.109
DATUM RL 384.500



DESIGN	386.034	386.049	386.109	386.169	386.184	385.892	
SURVEY	385.346	385.655	385.726	385.892	
OFFSET	-2.500	-2.000	0.000	2.000	2.500	3.669	

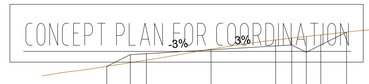
CHAINAGE 460

Centreline Data
X = 284743.714
Y = 6150929.378
Z = 387.409
DATUM RL 387.000

DESIGN	387.334	387.349	387.409	387.469	387.484	
SURVEY						
OFFSET	-2.500	-2.000	0.000	2.000	2.500	

CHAINAGE 440

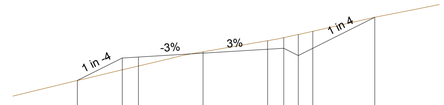
Centreline Data
X = 284856.413
Y = 6150994.448
Z = 383.688
DATUM RL 383.000



DESIGN	383.431	383.613	383.628	383.688	383.748	383.763	383.651	383.763	383.962	
SURVEY	383.431	383.489	383.529	383.699	383.840	383.869	383.894	383.919	383.962	
OFFSET	-3.226	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	4.197	

CHAINAGE 580

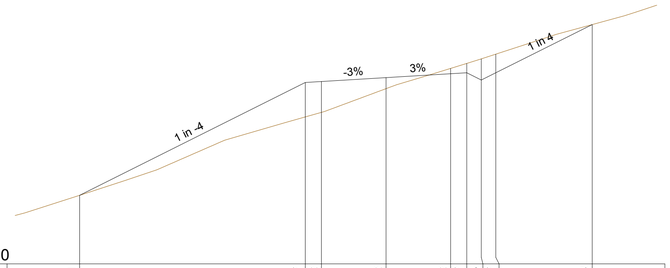
Centreline Data
X = 284836.544
Y = 6150995.252
Z = 383.503
DATUM RL 382.500



DESIGN	383.080	383.428	383.443	383.503	383.563	383.578	383.465	383.578	384.058	
SURVEY	383.080	383.244	383.303	383.523	383.695	383.742	383.791	383.841	384.058	
OFFSET	-3.892	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	5.319	

CHAINAGE 560

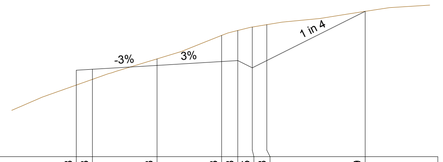
Centreline Data
X = 284816.695
Y = 6150994.110
Z = 383.382
DATUM RL 380.500



DESIGN	381.561	383.307	383.322	383.382	383.442	383.457	383.345	383.457	384.203	
SURVEY	381.561	382.774	382.845	383.212	383.525	383.602	383.673	383.746	384.203	
OFFSET	-9.486	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	6.385	

CHAINAGE 540

Centreline Data
X = 284798.664
Y = 6150985.735
Z = 384.413
DATUM RL 383.000



DESIGN	384.338	384.353	384.413	384.473	384.488	384.375	384.488	385.249	
SURVEY	384.108	384.197	384.513	384.876	384.953	385.006	385.043	385.249	
OFFSET	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	6.445	

CHAINAGE 520

ISSUE	REVISION	DATE

REFERENCE COORDINATION DRAWING

DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.		DRAWING TITLE AND NUMBER	DATE	REV.
ARCH.				FIRE			
STRUCT.				LANDS			
MECH.				CIVIL			
ELEC.				SURVEY			
HYD.							

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QUALITY CONTROL
DRAWN DATE
DESIGNED DATE
CHECKED DATE

APPROVED:

CLIENT:

PROJECT:

TITLE:
DRIVEWAY CROSS SECTION

DRAWING STATUS

SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO. DRAWING NO. REVISION NO.
C16

a1

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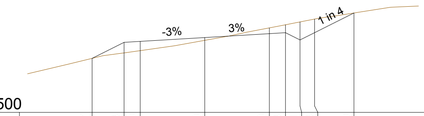
CONCEPT PLAN FOR COORDINATION

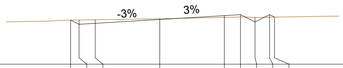
Centreline Data
X = 284896.266
Y = 6151078.031
Z = 379.659
DATUM RL 378.500



DESIGN	379.337	379.584	379.599	379.659	379.719	379.734	379.621	379.734	380.039	
SURVEY	379.337	379.421	379.456	379.615	379.808	379.856	379.900	379.945	380.039	
OFFSET	-3.489	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	4.619	

CHAINAGE 680

Centreline Data
X = 284890.970
Y = 6151058.878
Z = 380.692
DATUM RL 380.000



DESIGN	380.682	380.617	380.632	380.692	380.752	380.767	380.655	380.767	380.729	
SURVEY	380.682	380.684	380.688	380.703	380.726	380.731	380.725	380.728	380.729	
OFFSET	-2.759	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	3.553	

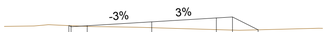
CHAINAGE 660

Centreline Data
X = 284888.608
Y = 6151039.018
Z = 381.332
DATUM RL 381.000

DESIGN	381.375	381.257	381.272	381.332	381.392	381.407	381.291			
SURVEY	381.375	381.371	381.367	381.349	381.305	381.297	381.291			
OFFSET	-2.972	-2.500	-2.000	0.000	2.000	2.500	2.965			

CHAINAGE 640

Centreline Data
X = 284885.373
Y = 6151019.326
Z = 381.908
DATUM RL 381.500



DESIGN	381.850	381.833	381.848	381.908	381.968	381.983	381.784			
SURVEY	381.850	381.848	381.837	381.817	381.787	381.760	381.784			
OFFSET	-2.567	-2.500	-2.000	0.000	2.000	2.500	3.293			

CHAINAGE 620

Centreline Data
X = 284874.244
Y = 6151002.986
Z = 382.802
DATUM RL 382.000

DESIGN	382.699	382.727	382.742	382.802	382.862	382.877	382.760			
SURVEY	382.699	382.700	382.707	382.741	382.734	382.753	382.760			
OFFSET	-2.610	-2.500	-2.000	0.000	2.000	2.500	2.968			

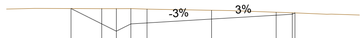
CHAINAGE 600

Centreline Data
X = 284986.068
Y = 6151099.379
Z = 377.110
DATUM RL 376.500

DESIGN	377.251	377.131	377.127	377.110	377.093	377.089	377.103			
SURVEY	377.251	377.237	377.223	377.162	377.112	377.104	377.103			
OFFSET	-2.982	-2.500	-2.000	0.000	2.000	2.500	2.556			

CHAINAGE 780

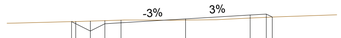
Centreline Data
X = 284966.181
Y = 6151101.505
Z = 377.816
DATUM RL 377.000



DESIGN	377.980	377.741	377.629	377.741	377.756	377.816	377.876	377.891	377.912	
SURVEY	377.980	377.978	377.977	377.978	377.970	377.953	377.923	377.914	377.912	377.912
OFFSET	-4.352	-3.400	-2.950	-2.500	-2.000	0.000	2.000	2.500	2.581	

CHAINAGE 760

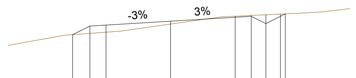
Centreline Data
X = 284946.295
Y = 6151103.630
Z = 378.518
DATUM RL 378.000



DESIGN	378.475	378.443	378.330	378.443	378.458	378.518	378.578	378.593	378.547	
SURVEY	378.475	378.477	378.484	378.491	378.499	378.499	378.530	378.542	378.547	378.683
OFFSET	-3.531	-3.400	-2.950	-2.500	-2.000	0.000	2.000	2.500	2.683	

CHAINAGE 740

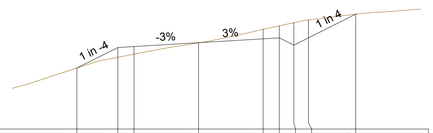
Centreline Data
X = 284926.463
Y = 6151102.477
Z = 379.094
DATUM RL 378.000



DESIGN	378.885	379.019	379.034	379.094	379.154	379.169	379.056	379.169	379.207	
SURVEY	378.885	378.905	378.923	379.049	379.171	379.183	379.193	379.203	379.207	
OFFSET	-3.034	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	3.553	

CHAINAGE 720

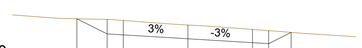
Centreline Data
X = 284908.780
Y = 6151093.446
Z = 379.337
DATUM RL 378.000



DESIGN	378.944	379.262	379.277	379.337	379.397	379.412	379.300	379.412	379.779	
SURVEY	378.944	379.111	379.160	379.334	379.544	379.598	379.646	379.690	379.779	
OFFSET	-3.771	-2.500	-2.000	0.000	2.000	2.500	2.950	3.400	4.867	

CHAINAGE 700

Centreline Data
X = 284993.963
Y = 6151098.536
Z = 376.829
DATUM RL 376.500



DESIGN	377.139	376.904	376.889	376.829	376.769	376.754	376.928			
SURVEY	377.139	377.129	377.112	377.043	376.974	376.956	376.928			
OFFSET	-3.438	-2.500	-2.000	0.000	2.000	2.500	3.196			

CHAINAGE 787.94

ISSUE	REVISION	DATE

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ARCH.				FIRE			
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MOB: 0419 041 401

QUALITY CONTROL
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DESIGNED DATE
CHECKED DATE

APPROVED:

CLIENT:

PROJECT:

TITLE: DRIVEWAY CROSS SECTION

DRAWING STATUS

SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO. | DRAWING NO. C17 | REVISION NO.

a1

CUT & FILL SUMMARY

TOTAL CUT	-3659.443
TOTAL FILL	3700.938
TOTAL BALANCE	41.495

BULK EARTH WORK PLAN

1:1000@A1

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ISSUE	REVISION	DATE

REFERENCE COORDINATION DRAWING

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CLIENT:

PROJECT:

TITLE: BULK EARTHWORK PLAN

DRAWING STATUS

SCALE (AT ORIGINAL SIZE) AS NOTED

PROJECT NO.	DRAWING NO.	REVISION NO.
	C18	

a1