

NOTES - VEGETATION AND EXTENT OF WORKS

- 1

Old Mans Valley (eastern edge area)
Significant trees and vegetation in this area are being protected. The Extent of Works line has been adjusted to protect Blackbutt Gully Forest. It is noted that the root zone of most trees here sit on a rock shelf high above the area of works.
- 2

Old Mans Valley (south area)
Design adjustments have been made to protect a Blue Gum tree in this vicinity.
- 3

Old Mans Valley (west area)
The limit of works line has been adjusted to protect vegetation this area. Substantial rehabilitation and restoration of natural vegetation is planned for this area.
- 4

Quarry South Track (upper side)
Very steep slopes with unconsolidated soils exist in this area. Significant native trees in this area will be retained and protected, as they are outside the Extent of Works. Some trees in this area have fallen due to extreme slope and unconsolidated soils. Trees that pose an unreasonable risk will be removed.
- 5

Quarry South Track (lower side and Quarry Void slope)
Essential engineering works will be carried out to stabilise this track. Trackside vegetation protection will be prioritised in design and works. Extremely steep unstable slopes of the southern quarry walls will require detailed assessment. Depending on findings, works along the top of the cliff may require the removal of unstable trees that are vulnerable to failure and may contribute to further slope instability.
- 6

South West Area (east side)
Blue Gum and Blackbutt vegetation in this area will be protected and enhanced over time.
- 7

South West Area (south side)
The Extent of Works has been amended here to ensure protection of quality vegetation, including Blue Gum and Blackbutt trees in this area.
- 8

South West Area (west side)
The Extent of Works has been amended here to ensure protection of quality vegetation, including Blue Gum and Blackbutt trees in this area.
- 9

South West Area (central area)
Due to the need to regrade this area, it is likely that 5 Blackbutt trees in this area will require removal. Substantial planting, rehabilitation and restoration of natural vegetation is planned for this area.
- 10

South West Area (central area)
Due to the need to regrade this area, it is likely that some non-endemic Casuarina trees will require removal. Substantial planting, rehabilitation and restoration of natural vegetation is planned for this area.
- 11

South West Area (north area)
Due to the need to substantially regrade and stabilise this area, it is likely that 3 Blue Gums in this area will be removed. Substantial planting, rehabilitation and restoration of natural vegetation is planned for this area.
- 12

Quarry Void (western edge)
While every effort will be made to retain trees in this area, due to stabilisation and regrading works it is likely Blue Gum trees growing on the quarry void edge will require removal. Substantial planting, rehabilitation and restoration of natural vegetation is planned for this area.
- 13

Fuel Tank Area
Protection of Blue Gum trees in this area is a high priority in design and works.
- 14

Northern Spoil Mound (western edge)
Significant forest trees and vegetation in this area is being protected. The Extent of Works line has been adjusted to ensure protection of Blue Gum trees in this area.
- 15

Northern Spoil Mound (north-west)
The Extent of Works line has been adjusted to ensure protection of Blue Gum trees in this area.

- 16

Northern Spoil Mound (central area)
Due to an identified high risk of potential slope failure, this area will be subject to essential regrading, drainage rectification and remediation. As a result, tree vegetation in this area will need to be removed. With the works providing improved conditions for revegetation, substantial planting and restoration of natural forest vegetation is planned for this area. Adjacent areas outside the Extent of Works line will be protected.
- 17

Northern Spoil Mound
This area is outside the Extent of Works line. Regrading and drainage rectification works required in parts of the Northern Spoil Mound (central area), will ensure the long-term stability of this vegetated embankment.
- 18

Northern Spoil Mound (north works area)
Due to an identified high risk of potential slope failure, this area will be subject to essential regrading and remediation. As a result, tree vegetation within the Extent of Works line will need to be removed. With the works providing improved conditions for revegetation, substantial planting and restoration of natural forest vegetation is planned for this area. Adjacent areas out of the limit of works line will be protected.
- 19

Quarry Access Track
The trees in this area are outside the Extent of Works. They will be protected.
- 20


Old Mans Valley (north)
The trees in this area are outside the Extent of Works. They will be protected.
- 21

Quarry Void Walls and Ramps
Geotechnical advice will further inform retention or removal of primarily non-endemic vegetation in these areas. Planting and restoration are planned for some areas within the Quarry Void to enhance habitat and amenity of the area.
- 22

Hornsby Park Areas Generally
The preliminary Vegetation Management Plan (VMP) is a key component of the overall environmental 'Offsets Package' for the Hornsby Park proposal. It will guide the development of a final detailed VMP for the sites' natural forest environment restoration and rehabilitation. The Offsets Package will include the final VMP to guide ongoing management of the site's biodiversity values in perpetuity.

LEGEND

- Blue Gum (*Eucalyptus saligna*)
- Blackbutt (*Eucalyptus pilularis*)
- Other surveyed trees
- Dead Tree
- Former extent of works line
- Revised extent of works line
- CEEC Blue Gum High Diatreme Forest areas
- Blackbutt Gully Forest (good quality/ regeneration)
- Blackbutt Gully Forest (moderate/ poor quality/ regeneration)
- Blackbutt Gully Forest (poor quality/ regeneration)

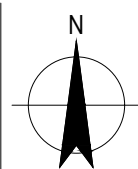
Hornsby Shire Council Major Projects Branch		Designer HSC		Design Checked-Landscape Co-ordinator						Bar Scales				REVISED EXTENT OF WORKS AND VEGETATION MAPPING		Project Number 100125	
TELEPHONE: (02) 9847 6666 FACSIMILE: (02) 9847 6999		Drawn HSC		Signed:						0 50 100 150m						Sheet of	
Authorised for release - Landscape Coordinator		Surveyor HSC		Signed:						SCALE 1:2500 @ A1						1 1	
Name: R. MINTER		Field Book		Level Book		AHD Datum				SCALE 1:5000 @ A3						HSC Drawing Number	
Signed:		-		-		-				DO NOT SCALE, USE FIGURED DIMENSIONS ONLY						-	
Date:																	
		Project Identifier\\CAD File Name Hornsby Park Project - Vegetation and EOW		TRIM Document Number		-		A FOR INFORMATION - REVISED EXTENT OF WORKS AND VEG MAPPING		JAMES FRAWLEY		JF		07.11.19			
								Issue		Description		Name		Initial		Date	
										Design not to be amended without authorisation by Manager Major Projects							



LEGEND

- PRE-NORTHCONNEX FILL SURVEY SURFACE
- CADASTRE
- APPROX. NORTHCONNEX FILL SURFACE
- APPROX. NORTHCONNEX FILL BOUNDARY

0 30 60 90m
SCALE 1:3000 AT ORIGINAL SIZE

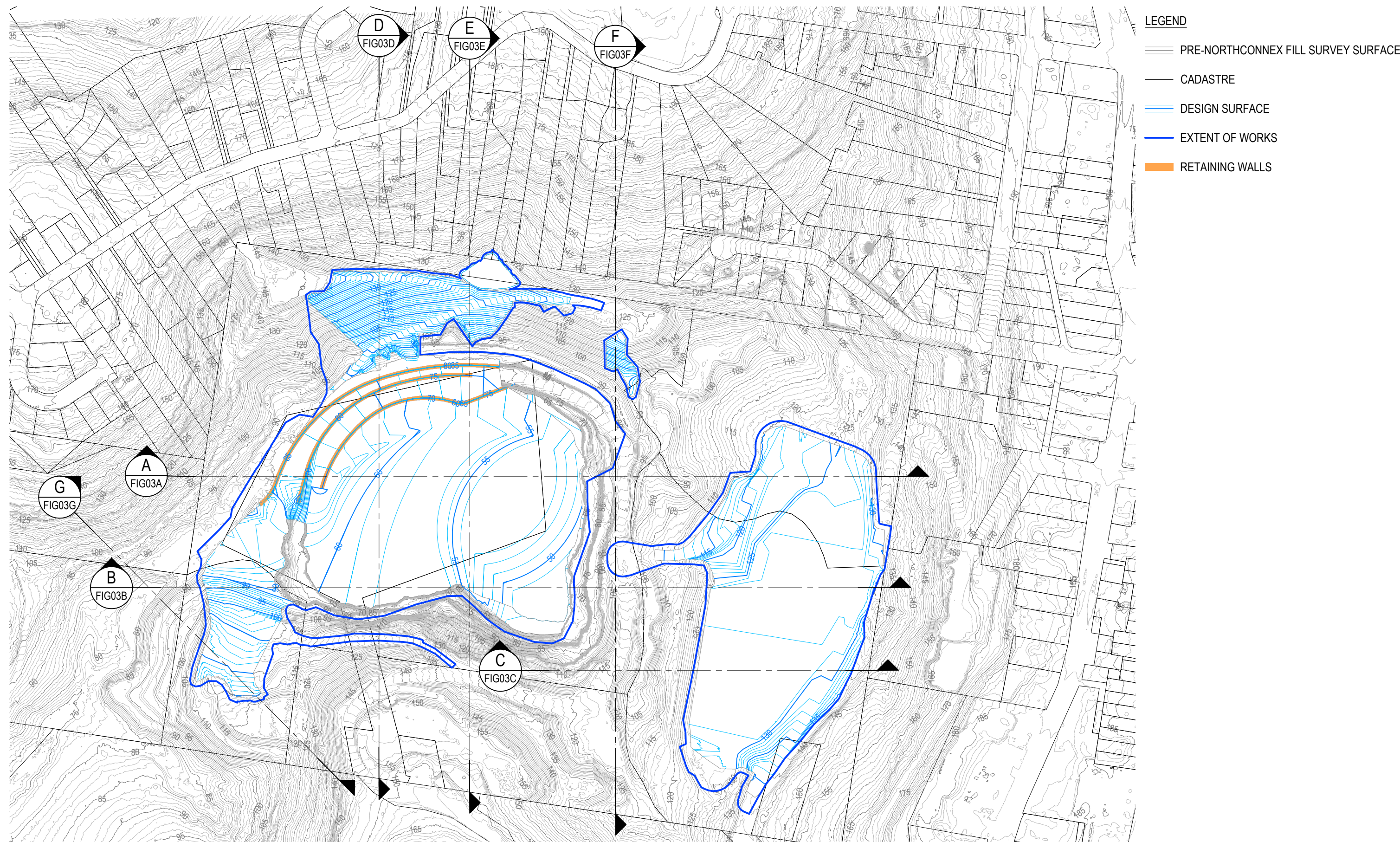


HORNSBY SHIRE COUNCIL
HORNSBY QUARRY REHABILITATION

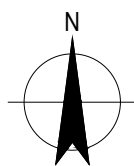
EXISTING SITE PLAN

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Revision | E
Date | NOV 2019

Figure 01



0 50 100m
SCALE 1:3500 AT ORIGINAL SIZE



HORNSBY SHIRE COUNCIL
HORNSBY QUARRY REHABILITATION

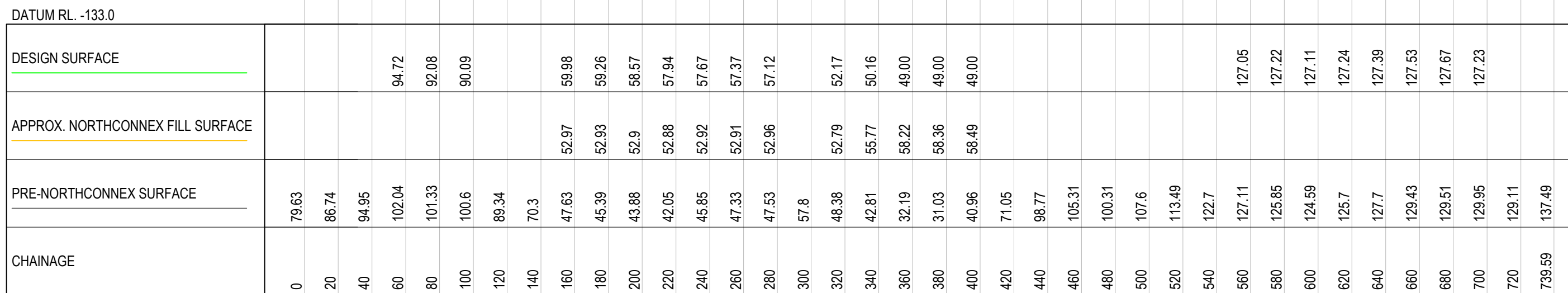
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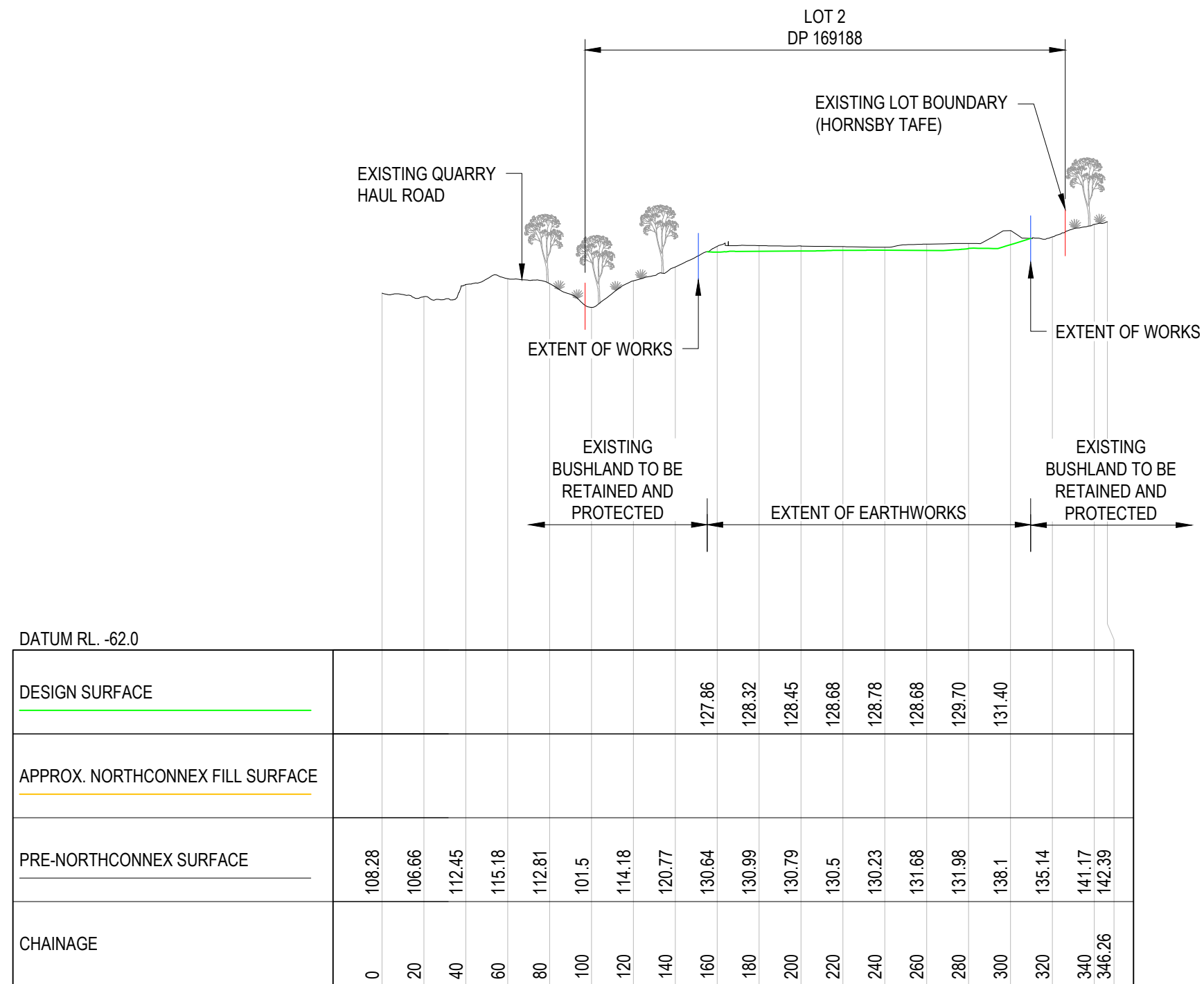
Job Number 21-26457
Revision J
Date NOV 2019

Figure 02



Figure 03A





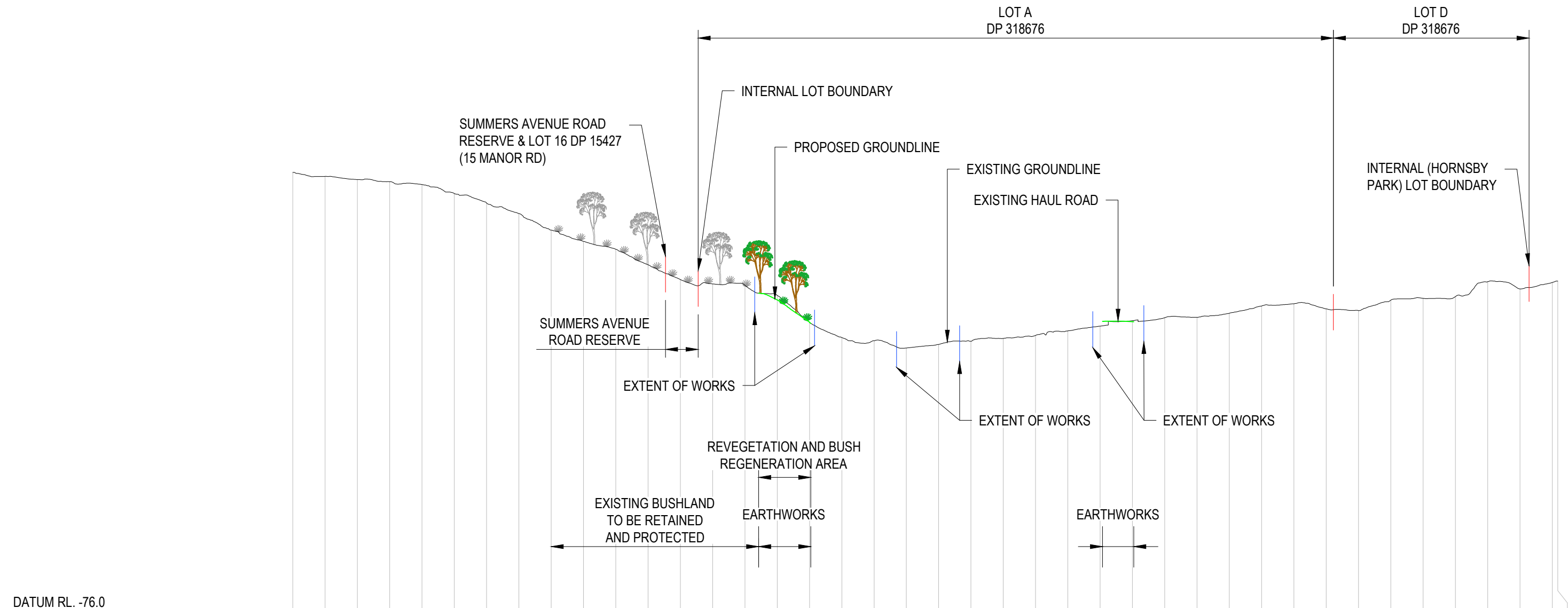
C SECTION
FIG02 SCALE 1 : 2500

0 25 50 75m
SCALE 1:2500 AT ORIGINAL SIZE



HORNSBY SHIRE COUNCIL
HORNSBY QUARRY REHABILITATION
**CROSS SECTIONS
SHEET 3**

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Figure 03C



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F SECTION
FIG02 SCALE 1 : 2500

0 25 50 75m
SCALE 1:2500 AT ORIGINAL SIZE

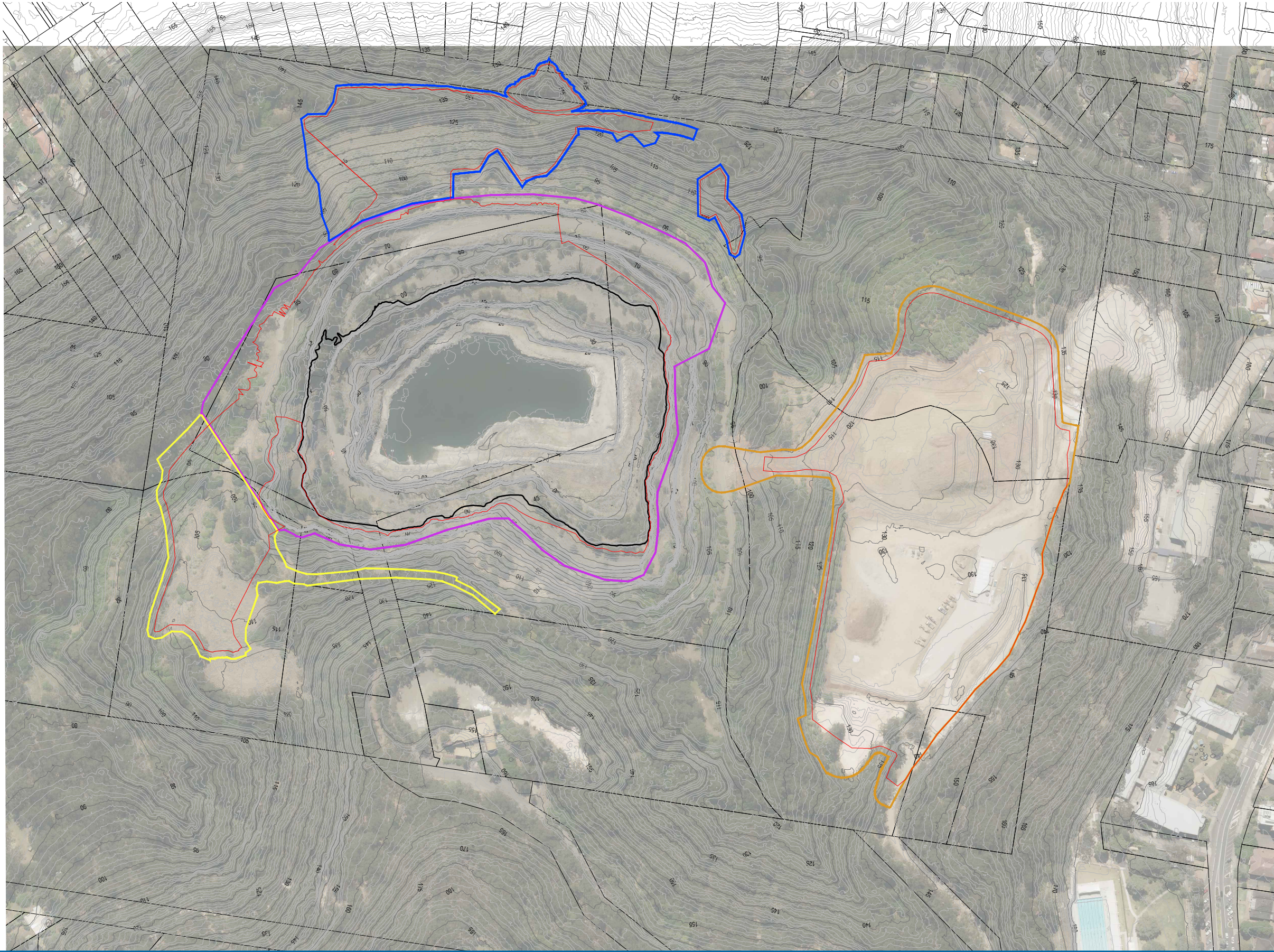


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HORNSBY QUARRY REHABILITATION
**CROSS SECTIONS
SHEET 6**

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Figure 03F

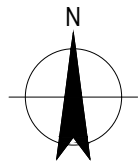
CROSS SECTIONS
SHEET 7

Figure 03G



- LEGEND**
- CADASTRE
 - PRE-NORTHCONNEX FILL SURVEY SURFACE
 - APPROX. NORTHCONNEX FILL BOUNDARY
 - EARTHWORKS DESIGN EXTENT
 - NORTHERN SPOIL MOUND WORKS AREA
 - SOUTH-WEST FILL WORKS AREA
 - QUARRY VOID WORKS AREA
 - OLD MANS VALLEY WORKS AREA

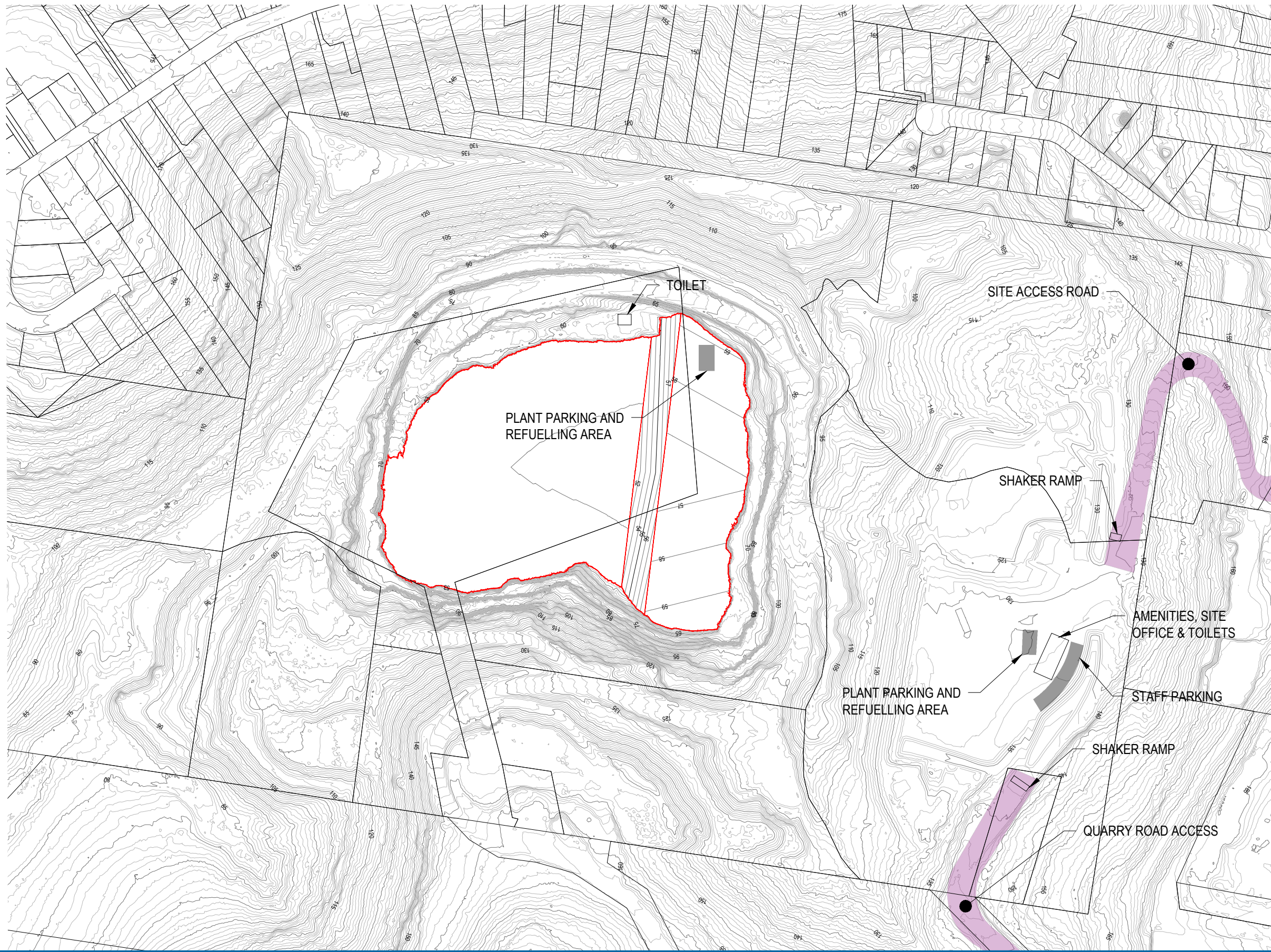
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SCALE 1:3000 AT ORIGINAL SIZE



HORNSBY SHIRE COUNCIL
HORNSBY QUARRY REHABILITATION
EXTENT OF WORKS

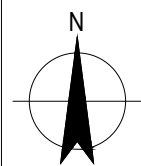
Job Number | 21-26457
Revision | E
Date | NOV 2019

Figure 04



- LEGEND**
- SURVEY SURFACE
 - APPROX. FILL SURFACE (NORTHCONNEX)
 - APPROX. FILL BOUNDARY (NORTHCONNEX)

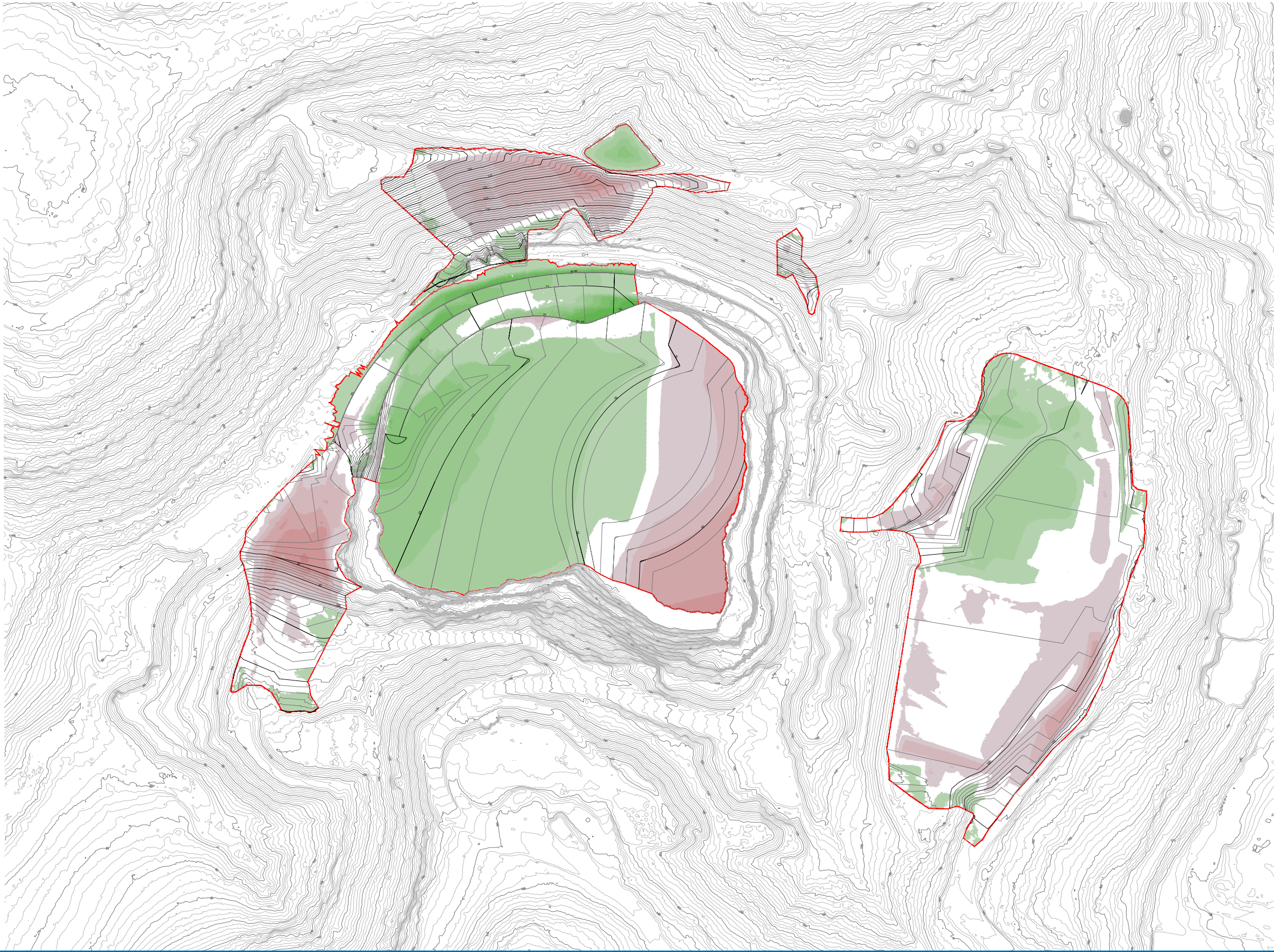
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HORNSBY SHIRE COUNCIL
HORNSBY QUARRY REHABILITATION
SITE MANAGEMENT PLAN

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Figure 05



LEGEND

ASSUMED EXISTING SURFACE

PIT AREA DESIGN SURFACE

VOLUME CALCULATION BOUNDARY

CUT FILL DEPTH RANGE

25m CUT

22.5m

20m

17.5m

15m

12.5m

10m

7.5m

5m

2.5m

0

2.5m

5m

7.5m

10m

12.5m

15m

17.5m

20m FILL

VOLUMES

AREA	CUT (m³)	FILL (m³)
QUARRY VOID AND SW FILL AREA	135,800	182,300
OLD MANS VALLEY	62,900	48,700
NORTHERN SPOIL MOUND	42,900	6,400
TOTAL	241,600	237,400

MEASURED FROM ASSUMED NORTHCONNEX FILL SURFACE AS ILLUSTRATED ON FIGURE 1