HIGHLAND VIEWS
RIPARIAN REHABILITATION

REV 1 **20/11/2020** **FOR APPROVAL**

CLIENT: C/O

CCL DEVELOPMENT PTY LTD
MANAGEMENT AND DEVELOPMENT

DRAWING LIST

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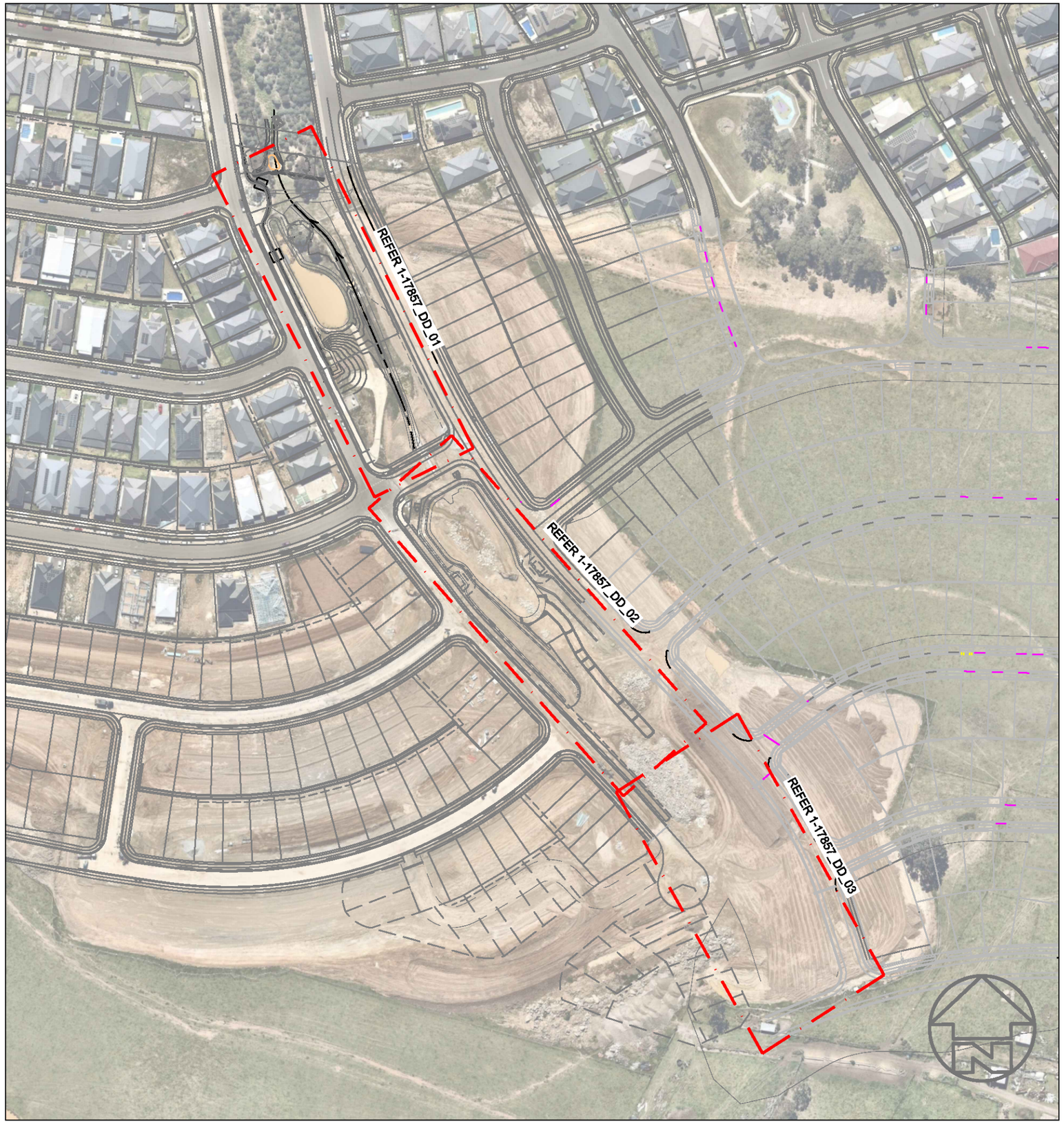
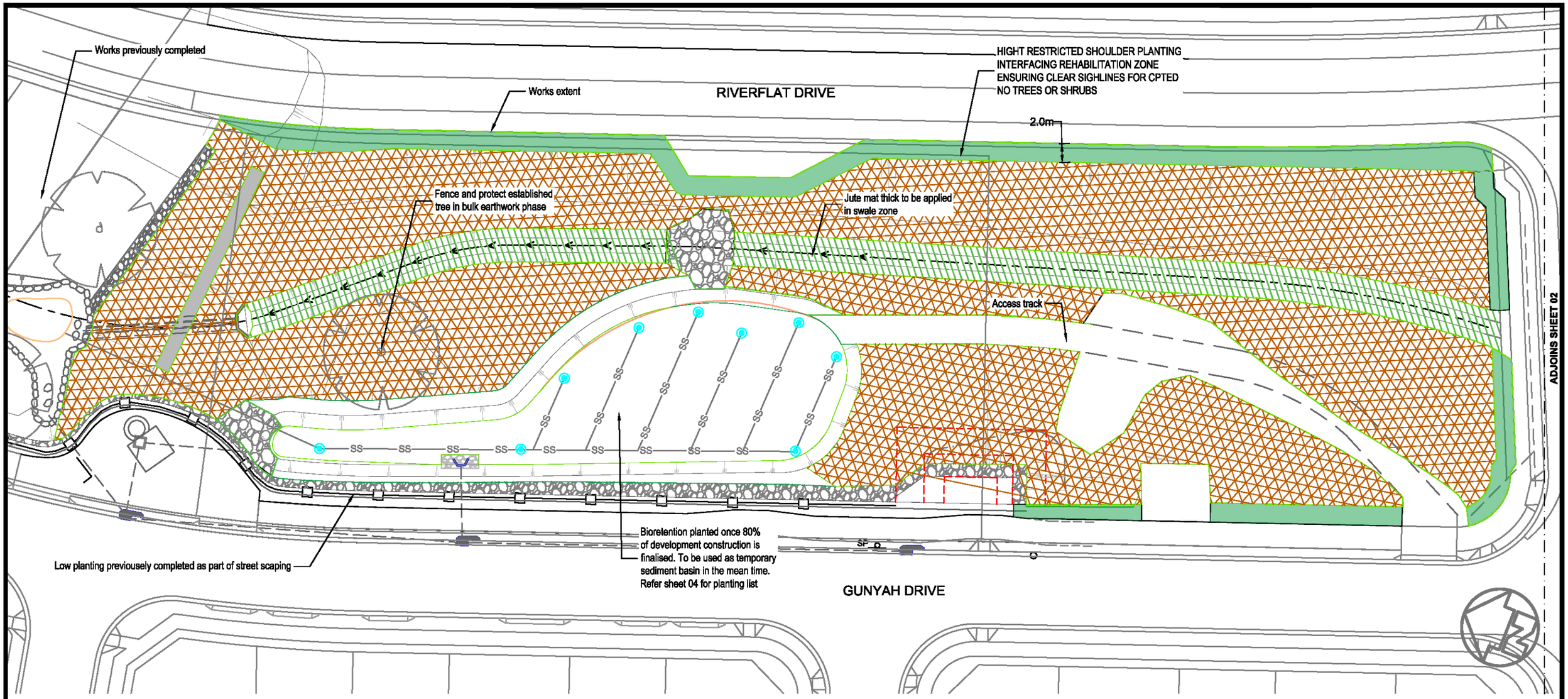
[redacted]



LOCALITY PLAN - NTS



TREATMENT ZONES

Terrestrial Zone
Area = 2985m²

Swale / Emergency Spillway
Area = 534m²

Shoulder planting (height restricted)
Area = 570m²

Existing Trees
Protect roots when conducting soil preparation

VEGETATION MANAGEMENT PLAN :
Methodology and treatments for the downstream riparian corridor, based upon 'Eco Logical Australia 2016. The Northern Road, Mulgoa Vegetation Management Plan Version 2. Prepared for CCL Development Pty Ltd'

PLANTING NOTE:
Refer sheet 06 for planting schedule

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1	FOR APPROVAL	20.11.2020

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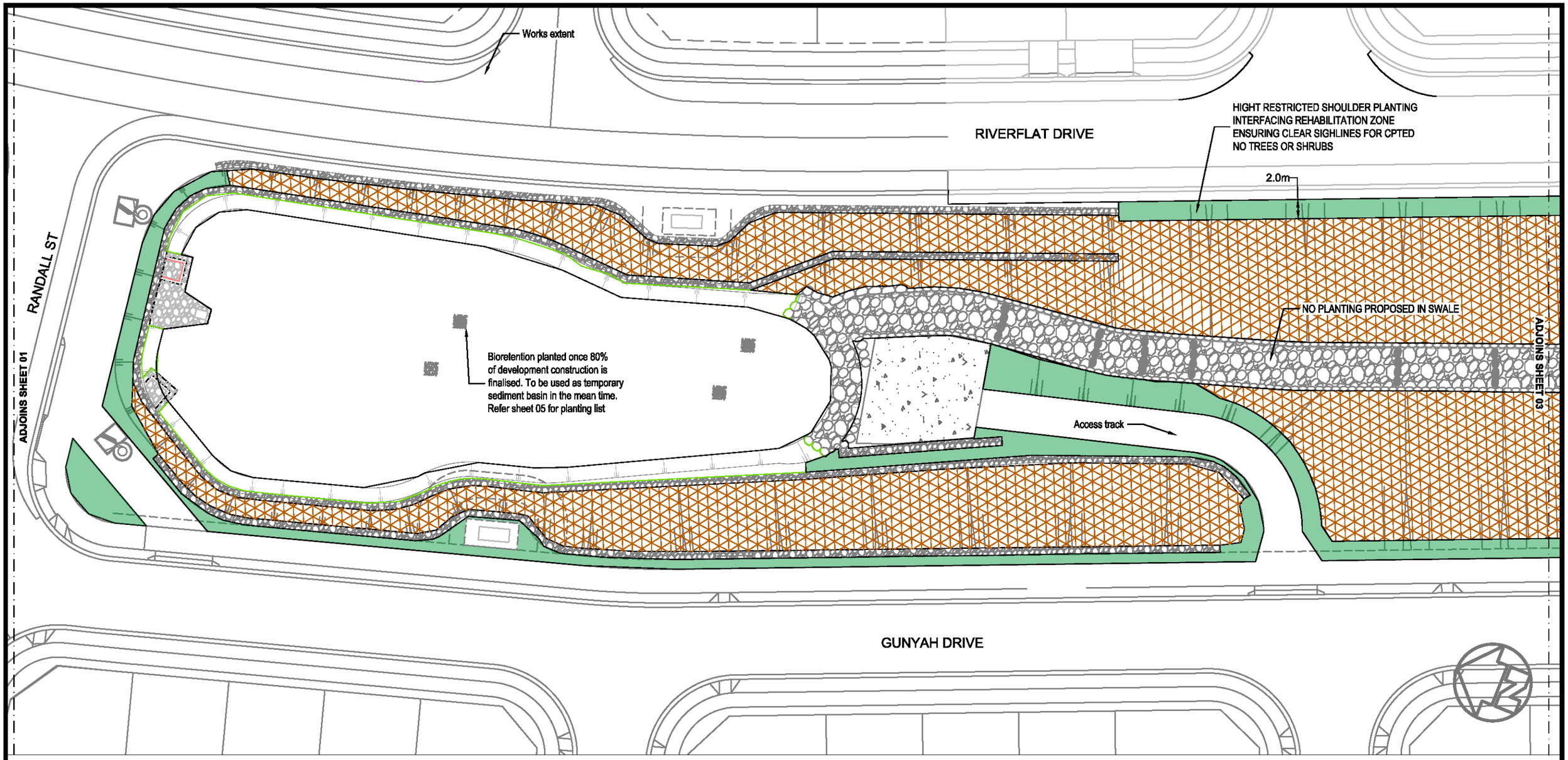
PROJECT
HIGHLAND VIEWS
GLENMORE PARK

DRAWING
DOWNSTREAM RIPARIAN
PLANTING PLAN

DWG No. 3-17857A_DD_01
CAD FILE No. 3-17857_Highland_DD.dwg
REV. 1

SCALE 1:1000 @ A3 0 10 20m
DRAWING CREATED 18/07/2017



TREATMENT ZONES

Terrestrial Zone
Area = 7052m²

Shoulder planting (height restricted)
Area = 570m²

PLANTING NOTE:
Refer sheet 06 for planting schedule

VEGETATION MANAGEMENT PLAN :
METHODOLOGY AND TREATMENTS OF
UPPER RIPARIAN CORRIDOR, SUBJECT TO
CHANGE WITH THE COMPLETION OF A VMP

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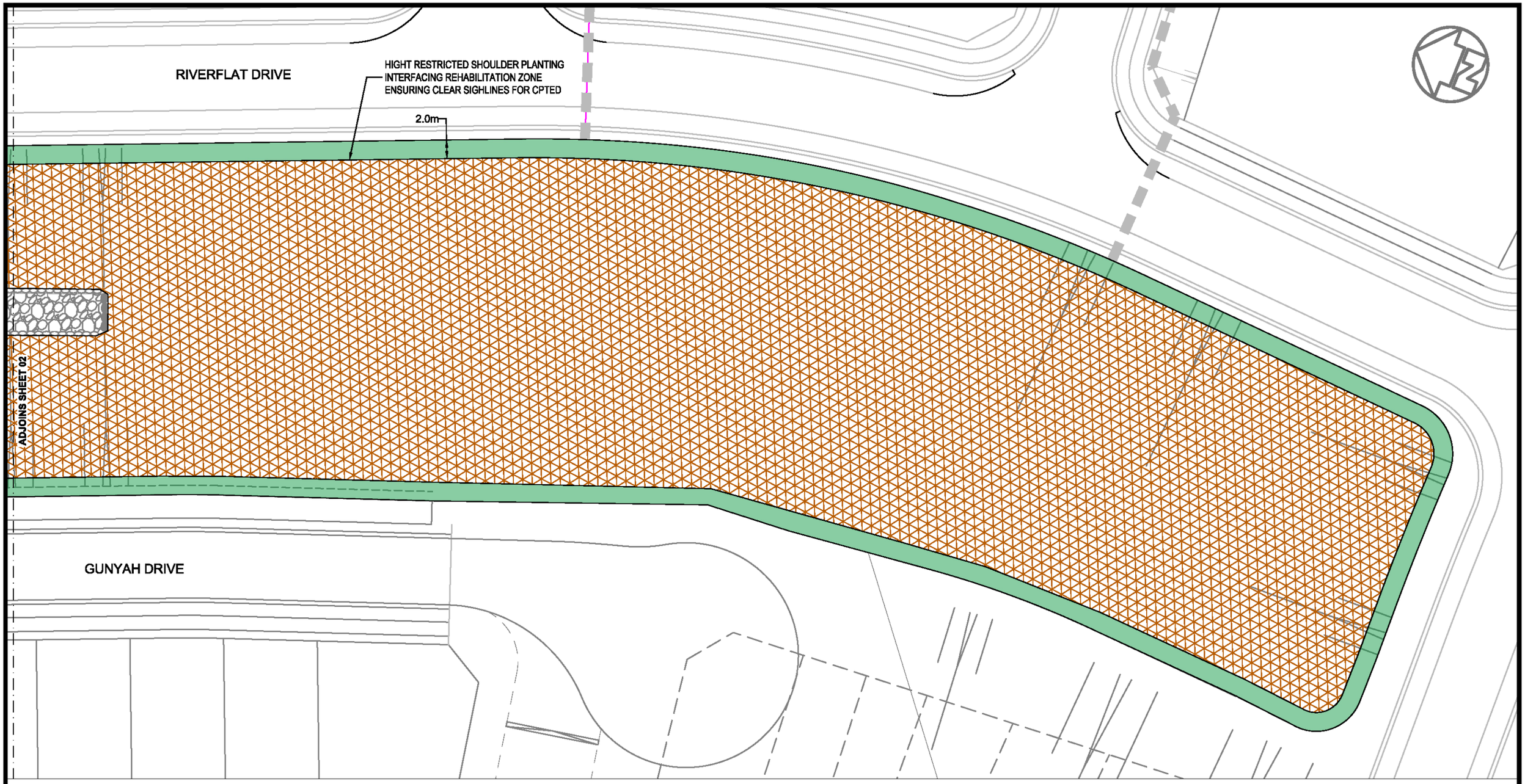
DRAWING
TREATMENT ZONES
PLANTING PLAN

DWG No. 3-17857A_DD_02
CAD FILE No. 3-17857_Highland_DD.dwg
REV. 1

SCALE 1:400 @ A3 0 10 20m
DRAWING CREATED 18/07/2017



TREATMENT ZONES

Terrestrial Zone
Refer to sheet 02 for QTY

Shoulder planting (height restricted)
Refer to sheet 02 for QTY

PLANTING NOTE:
Refer sheet 06 for planting schedule

VEGETATION MANAGEMENT PLAN :
METHODOLOGY AND TREATMENTS OF UPPER RIPARIAN CORRIDOR, SUBJECT TO CHANGE WITH THE COMPLETION OF A VMP

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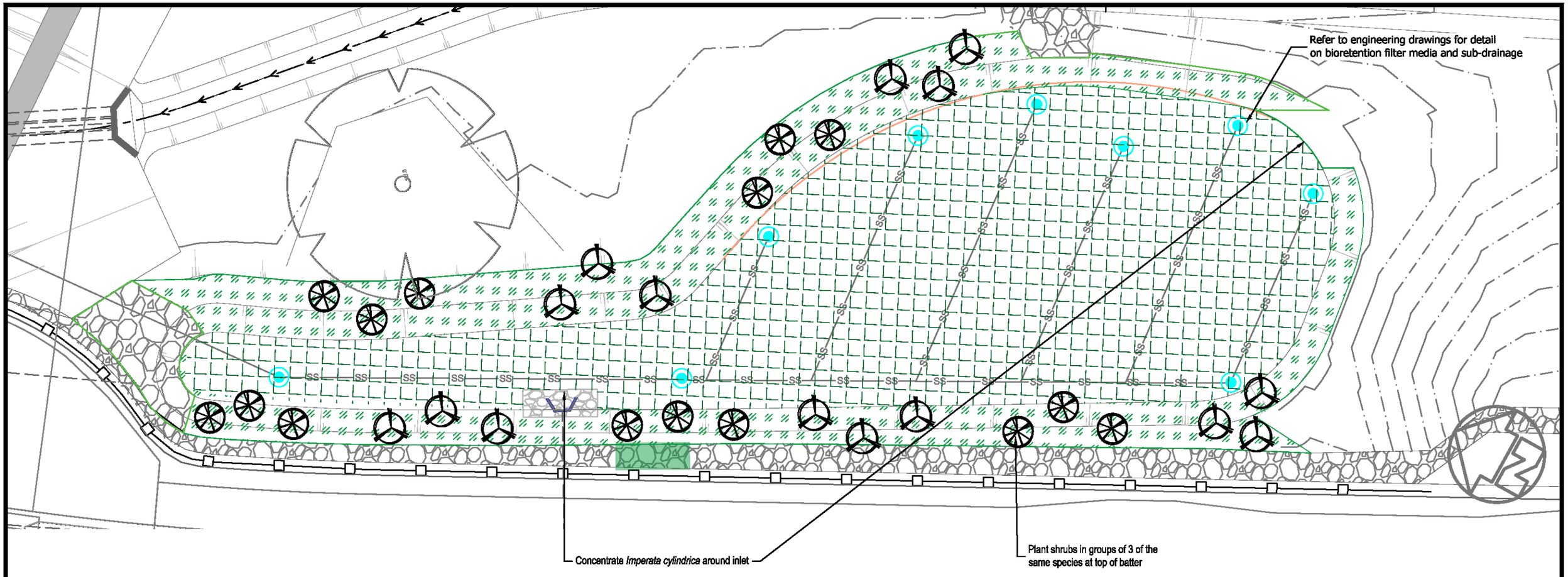
GLENMORE PARK

DRAWING
TREATMENT ZONES
PLANTING PLAN

DWG No. 3-17857A_DD_03
CAD FILE No. 3-17857_Highland_DD.dwg
REV. 1

SCALE 1:400 @ A3 0 10 20m
DRAWING CREATED 18/07/2017



BIORETENTION PLANTING ZONES

Bioretention Batter
Area = 550m²

Bioretention Floor
Area = 339m²

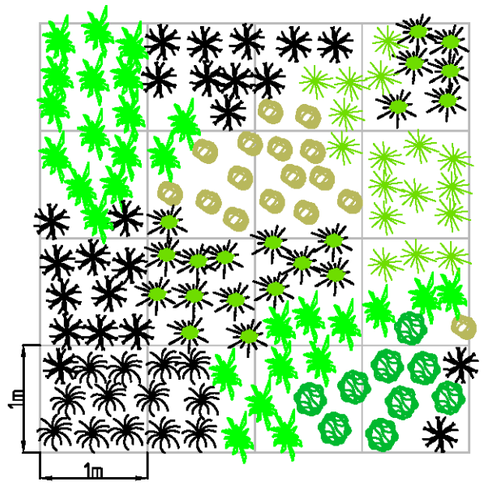
Melaleuca decora
Quantities = 15

Melaleuca linariifolia
Quantities = 15

BIO RETENTION BASIN PLANTING SCHEDULE

Species Name	Common Name	Pot Size	Bioretention floor - 550m²			Ephemeral batter - 300m²		
			Density plants/m²	% Prop	QTY	Density plants/m²	% Prop	QTY
*Carex appressa***	Tussock Sedge	Tube	8	15%	660	8	15%	360
Dianella caerulea	Blue Flax-Lilly	Tube	8	10%	440	8	15%	360
Ficinia nodosa	Knobby Club Rush	Tube	8	10%	440	8	15%	360
Juncus usitatus	Common Rush	Tube	8	10%	440	8	10%	240
Imperata cylindrica	Blady Grass	Tube	8	25%	1100	8	25%	600
Lomandra longifolia	Matt Rush	Tube	8	10%	440	8	10%	240
Poa sieberiana	Grey Tussock grass	Tube	8	10%	440	8	15%	360
Melaleuca decora	*White feather Honeymyrtle*	200mm				Na	Na	9
Melaleuca linariifolia	*Flax-leaved Paperbark*	200mm				NA	Na	9
Themeda australis	Kangaroo Grass	Tube	8	10%	440	8	10%	240
		TOTAL		100%	4400		100%	2778

Refer to planting matrix for distribution
No shrubs to be planted in bio filtration basin. Shrub species to planted on batter as indicated on sheet 02
**Carex appressa concentrate along bottom of ephemeral batter
Plant stock in clumps of 5 - 10 of the same species



DETAIL 3 - BIORETENTION PLANTING MOSAIC

SPECIES LEGEND

- *Carex appressa* - Tall Sedge
- *Dianella caerulea* - Blue Flax - Lilly
- *Ficinia nodosa* - Knobby Club Rush
- *Juncus usitatus* - Common Rush
- *Lomandra longifolia* - Mat rush
- *Poa sieberiana* - Grey Tussock Grass
- *Themeda australis* - Kangaroo Grass

NOTE:
BIORETENTION BASIN FLOOR CAN BE PLANTED ONCE A MINIMUM OF 80% OF CONSTRUCTION WITHIN CATCHMENT IS COMPLETED.

PLANT INTERNAL BIORETENTION BATTER IN INITIAL PLANTING TO PROGRESS ESTABLISHMENT OF VEGETATION

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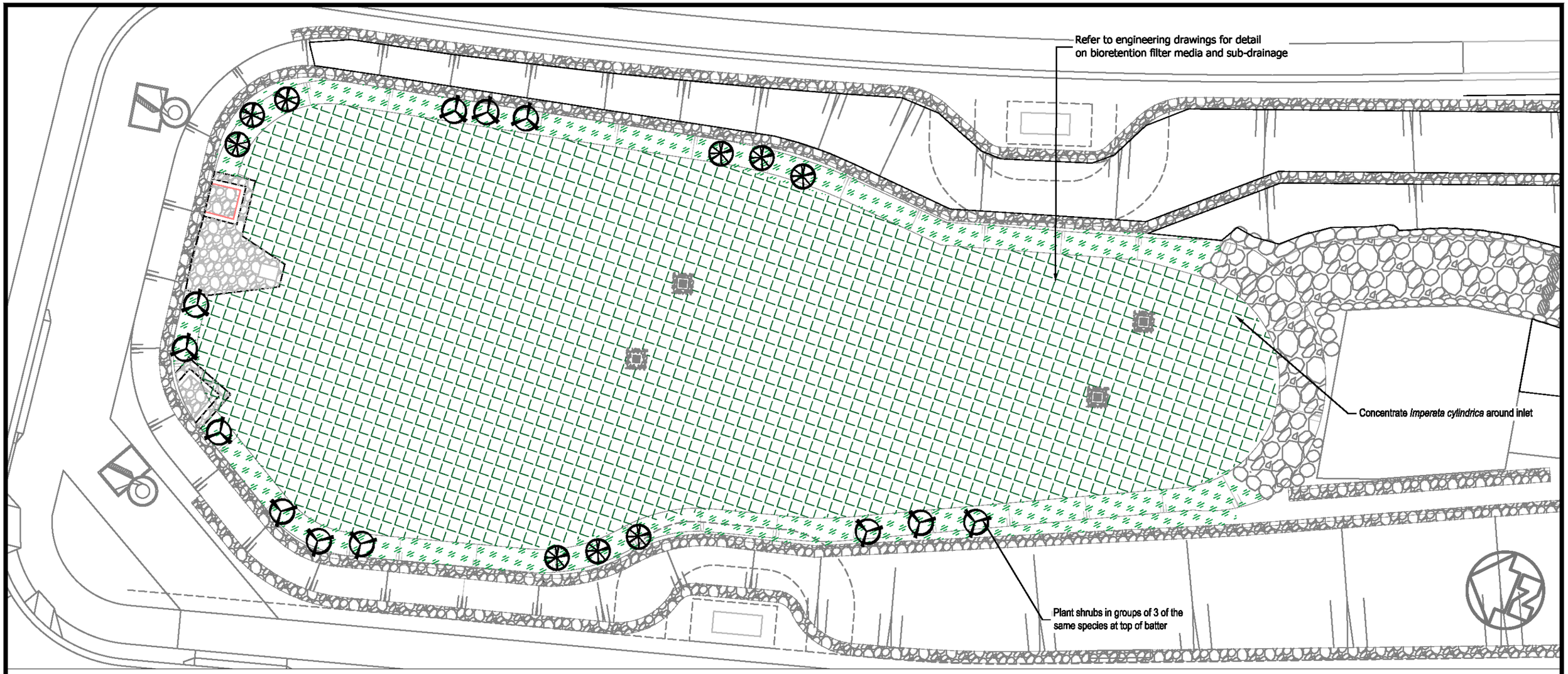
PROJECT
HIGHLAND VIEWS
GLENMORE PARK

DRAWING
DOWNSTREAM RAINGARDEN PLANTING PLAN

DWG No. 3-17857A_DD_04
CAD FILE No. 3-17857_Highland_DD.dwg
REV. 1

SCALE 1:200 @ A3 0 5 10m
DRAWING CREATED 18/07/2017



BIORETENTION PLANTING ZONES

Bioretention Batter
Area = 550m²

Melaleuca decora
Quantities = 15

Bioretention Floor
Area = 339m²

Melaleuca linariifolia
Quantities = 15

NOTE:
REFER SHEET O2 FOR BIO RETENTION PLANTING MATRIX

NOTE:
BIORETENTION BASIN FLOOR CAN BE PLANTED ONCE A MINIMUM OF 80% OF CONSTRUCTION WITHIN CATCHMENT IS COMPLETED.

PLANT INTERNAL BIORETENTION BATTER IN INITIAL PLANTING TO PROGRESS ESTABLISHMENT OF VEGETATION

BIO RETENTION BASIN PLANTING SCHEDULE

Species Name	Common Name	Pot Size	Bioretention floor - 1420m²			Ephemeral batter - 289m²		
			Density plants/m²	% Prop	QTY	Density plants/m²	% Prop	QTY
*Carex appressa***	Tussock Sedge	Tube	8	15%	1704	8	15%	347
Dianella caerulea	Blue Flax-Lilly	Tube	8	10%	1136	8	10%	231
Ficinia nodosa	Knobby Club Rush	Tube	8	10%	1136	8	10%	231
Juncus usitatus	Common Rush	Tube	8	10%	1136	8	10%	231
Imperata cylindrica	Blady Grass	Tube	8	25%	2840	8	25%	578
Lomandra longifolia	Matt Rush	Tube	8	10%	1136	8	10%	231
Poa sieberiana	Grey Tussock grass	Tube	8	10%	1136	8	10%	231
Melaleuca decora	*White feather Honeymyrtle*	200mm				Na	Na	12
Melaleuca linariifolia	*Flax-leaved Paperbark*	200mm				NA	Na	9
Themeda australis	Kangaroo Grass	Tube	8	10%	1136	8	10%	231
		TOTAL		100%	11360		85%	2333

Refer to planting matrix for distribution
No shrubs to be planted in bio filtration basin. Shrub species to planted on batter as indicated on sheet 05
**Carex appressa concentrate along bottom of ephemeral batter
Plant stock in clumps of 5 - 10 of the same species

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PROJECT
HIGHLAND VIEWS
GLENMORE PARK

DRAWING
UPSTREAM RAINGARDEN
PLANTING PLAN

DWG No. 3-17857A_DD_05
CAD FILE No. 3-17857_Highland_DD.dwg
REV. 1

SCALE 1:200 @ A3 0 5 10m
DRAWING CREATED 18/07/2017

DOWNSTREAM RIPARIAN CORRIDOR PLANTING SCHEDULE

TERRESTRIAL PLANTING SCHEDULE = 2985m²				
Species Name	**Common Name**	**Density /m²**	**% Prop**	**QTY**
Tree Canopy Speceis (>6m)				
Angophora floribunda	Rough-barked apple	0.1	4%	12
Casuarina glauca	Swamp Oak	0.1	4%	12
Eucalyptus amplifolia	Cabbage Gum	0.1	4%	12
Eucalyptus moluccana	Grey Box	0.1	4%	12
Eucalyptus tereticornis	Forest Red Gum	0.1	4%	12
Small Tree / Shrub Speceis (0.5 - 6m)				
Acacia parramattensis	Parramatta Wattle	0.5	3%	44
Bursaria spinosa	Sweet Bursaria	0.5	3%	44
Leptospermum trinervium	Flacky Barked Tea Tree	0.5	3%	44
Leptospermum polygalifoli	Yellow Tea Tree	0.5	3%	44
Melaleuca decora	White feather Honeymyrtle	0.5	3%	44
Melaleuca linariifolia	Flax-leaved Paperbark	0.5	3%	44
Melaleuca styphelioides	Prickly-leaved Tea Tree	0.5	3%	44
Ozothamnus diosmifolius	Ball Everlasting	0.5	3%	44
Pultenaea villosa	Egg and Bacon Bush	0.5	3%	44
Sedges, Rushes, reeds and Grasses				
Cymbopogon refractus	Barbed Wire Grass	4	8%	945
Dichelachne micrantha	Shorthair Plume Grass	4	8%	945
Echinopogon caespitosus	Bushy Hedgehog-grass	4	8%	945
Entolasia marginata	Bordered Panic	4	8%	945
Entolasia stricta	Wiry Panic	4	8%	945
Imperata cylindrica	Blady Grass	4	8%	945
Lomandra longifolia	Ribbon Grass	4	8%	945
Microlaena stipoides	Weeping Meadow Grass	4	8%	945
Paspalidium distans	Spreading Panic Grass	4	8%	945
Themeda australis	Kangaroo Grass	4	8%	945
Ground layer Speceis (~0 - 1.5m) Vines and Scrambles				
Cayratia clematidea	Native Grape	4	1%	118
Centella asiatica	Indian Pennywort	4	1%	118
Clematis aristata	Old Man's Beard	4	1%	118
Clematis glycinoides	Headache Vine	4	1%	118
Einadia hastata	Berry Saltbush	4	3%	354
Einadia trigonos	Fishweed	4	1%	118
Opercularia diphylla	Stinkweed	4	1%	118
Persicaria decipiens	Slender Knotweed	4	1%	118
Rubus parvifolius	Native Raspberry	4	1%	118
Solanum prinophyllum	Forest Nightshade	4	1%	118
	Sub Total		136%	11321
Species Proportion - Grasses/Groundcovers 55%, Shrubs 30%, Trees 15%				

SWALE PLANTING SCHEDULE = 534m²					
Species Name	**Common Name**	**Type**	**Density plants/m²**	**% Prop**	**QTY**
Austrostipa ramosissima	Stout Bamboo Grass	G	6	15%	481
*Carex appressa***	Tussock Sedge	G	6	25%	801
Imperata cylindrica	Blady Grass	G	6	25%	801
Lomandra longifolia	Matt Rush	G	6	15%	481
Microlaena stipoides	Weeping Meadow Grass	G	6	10%	320
Poa sieberiana	Grey Tussock grass	G	6	10%	320
	TOTAL			100%	3204

SHOULDER PLANTING SCHEDULE = 570m²					
Species Name	**Common Name**	**Type**	**Density plants/m²**	**% Prop**	**QTY**
*Austrostipa ramosissima**	Stout Bamboo Grass	G	6	5%	111
Carex appressa	Tall Sedge	G	6	15%	334
Dichelachne micrantha	Shorthair Plume Grass	G	6	5%	111
Einadia hastata	Berry Saltbush	G	6	10%	223
Imperata cylindrica	Blady Grass	G	6	15%	334
*Lomandra longifolia **	Ribbon Grass	G	6	15%	334
Microlaena stipoides	Weeping Meadow Grass	G	6	10%	223
Poa sieberiana	Grey Tussock grass	G	6	15%	334
Themeda australis	Kangaroo Grass	G	6	10%	223
		TOTAL		100%	2226

* Plant at back of strip away from footpath

UPSTREAM RIPARIAN CORRIDOR PLANTING SCHEDULE

TERRESTRIAL PLANTING SCHEDULE = 7052m²				
Species Name	**Common Name**	**Density /m²**	**% Prop**	**QTY**
Tree Canopy Speceis (>6m)				
Angophora floribunda	Rough-barked apple	0.1	4%	28
Casuarina glauca	Swamp Oak	0.1	4%	28
Eucalyptus amplifolia	Cabbage Gum	0.1	4%	28
Eucalyptus moluccana	Grey Box	0.1	4%	28
Eucalyptus tereticornis	Forest Red Gum	0.1	4%	28
Small Tree / Shrub Speceis (0.5 - 6m)				
Acacia parramattensis	Parramatta Wattle	0.5	3%	106
Bursaria spinosa	Sweet Bursaria	0.5	3%	106
Leptospermum trinervium	Flacky Barked Tea Tree	0.5	3%	106
Leptospermum polygalifoli	Yellow Tea Tree	0.5	3%	106
Melaleuca decora	White feather Honeymyrtle	0.5	3%	106
Melaleuca linariifolia	Flax-leaved Paperbark	0.5	3%	106
Melaleuca styphelioides	Prickly-leaved Tea Tree	0.5	3%	106
Ozothamnus diosmifolius	Ball Everlasting	0.5	3%	106
Pultenaea villosa	Egg and Bacon Bush	0.5	3%	106
Sedges, Rushes, reeds and Grasses				
Cymbopogon refractus	Barbed Wire Grass	4	8%	2257
Dichelachne micrantha	Shorthair Plume Grass	4	8%	2257
Echinopogon caespitosus	Bushy Hedgehog-grass	4	8%	2257
Entolasia marginata	Bordered Panic	4	8%	2257
Entolasia stricta	Wiry Panic	4	8%	2257
Imperata cylindrica	Blady Grass	4	8%	2257
Lomandra longifolia	Ribbon Grass	4	8%	2257
Microlaena stipoides	Weeping Meadow Grass	4	8%	2257
Paspalidium distans	Spreading Panic Grass	4	8%	2257
Themeda australis	Kangaroo Grass	4	8%	2257
Ground layer Speceis (~0 - 1.5m) Vines and Scrambles				
Cayratia clematidea	Native Grape	4	1%	282
Centella asiatica	Indian Pennywort	4	1%	282
Clematis aristata	Old Man's Beard	4	1%	282
Clematis glycinoides	Headache Vine	4	1%	282
Einadia hastata	Berry Saltbush	4	3%	846
Einadia trigonos	Fishweed	4	1%	282
Opercularia diphylla	Stinkweed	4	1%	282
Persicaria decipiens	Slender Knotweed	4	1%	282
Rubus parvifolius	Native Raspberry	4	1%	282
Solanum prinophyllum	Forest Nightshade	4	1%	282
	Sub Total		136%	27044
Species Proportion - Grasses/Groundcovers 55%, Shrubs 30%, Trees 15%				

SHOULDER PLANTING SCHEDULE = 1211m²					
Species Name	**Common Name**	**Type**	**Density plants/m²**	**% Prop**	**QTY**
*Austrostipa ramosissima**	Stout Bamboo Grass	G	6	5%	363
Carex appressa	Tall Sedge	G	6	15%	1090
Dichelachne micrantha	Shorthair Plume Grass	G	6	5%	363
Einadia hastata	Berry Saltbush	G	6	10%	727
Imperata cylindrica	Blady Grass	G	6	15%	1090
*Lomandra longifolia **	Ribbon Grass	G	6	15%	1090
Microlaena stipoides	Weeping Meadow Grass	G	6	10%	727
Poa sieberiana	Grey Tussock grass	G	6	15%	1090
Themeda australis	Kangaroo Grass	G	6	10%	727
		TOTAL		100%	7266

* Plant at back of strip away from footpath

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PROJECT: HIGHLAND VIEWS GLENMORE PARK

DRAWING: RIPARIAN ZONE PLANTING SCHEDULE

DWG No. 3-17857A_DD_06

CAD FILE No. 3-17857_Highland_DD.dwg

SCALE

DRAWING CREATED 18/07/2017

REV. 1

Notes are to be read in conjunction with Vegetation managment plan

DOWNSTREAM RIPARIAN PLANTING PLAN SHEET 01

'Eco Logical Australia 2016. The Northern Road, Mulgoa Vegetation Management Plan Version 2. Prepared for CCL Development Pty Ltd'

UPSTREAM RIPARIAN PLANTING PLAN SHEET 02-03

Vegetation managment plan to be completed by AWC. Design subject to change on completion of civil design and VMP

GENERAL NOTES

Witness points

Give sufficient notice so that inspection may be made at the following stages:

- Prior to weed control commencing
- Sub-grades cultivated or prepared for placing topsoil.
- Planting area set out
- Completion of planting establishment work
- Provide evidence of plant provenance

WEED CONTROL

Only contractors that are experienced and trained in plant identification and weed removal techniques shall be employed to remove vegetation and weeds

Juncus acutus

The predominant weed in this area is Juncus acutus (Spiny Rush). This species should be controlled by slashing to remove sharp points and seed head and then spraying with a non-specific herbicide formulated for use around water (eg. Roundup Biactive).

Mechanical removal may be considered for dense clumps.

SOIL PREPARATION

All top soil is to be stock piled and reused on site to cover exposed sup soils in bulk earthworks phase.

Rehabilitation Zones (Terrestrial)

Due to the high compaction of soil in the bulk earthworks phase all areas are required to be ripped at a minimum depths of 200mm.

Care must be taken around existing trees and underground services when ripping.

Conduct soil testing and ameliorate according to results from a NATA certified laboratory, adding organic matter and gypsum to soil where required.

Bioretention Basin / Batter

Basin Floor- Refer to engineering drawing for filter media specifications.

Basin batters - Top dress with 200mm of ameliorated site soil.

MULCH

Terrestrial

- Mulch Terrestrial zone with native hardwood woodchip 100mm depth.
- Mulch must be free of weeds or seed. If this is not enforced, weed control will most certainly become a problem in the maintenance period.
- Dish out mulch away from plant stems. Refer Detail 3 sheet 03.

Bioretention floor

- No much required

Swale / Bioretention batters

- Jute mat to be minimum 680gsm (e.g. maxjute-thick) and installed in accordance with manufacturers specifications.
- Cut slits into mat for plant installation. Refer to Sheet 02.

PLANTING NOTES

Pre-ordering

The contractor shall be responsible for ensuring that all plant material is available to sizes and species type nominated in the plant schedules.

For specimens in large quantities this will require the preordering and growing on of species by a selected nursery for an extensive period of time prior to their installation. Proposed pre ordered specimens are to be sourced and approved in consultation with the project Landscape Architect. No substitution of species or sizes will be accepted unless given in writing by the Landscape Architect or Site Superintendent.

Plants Species / provenance

Plant species - refer to table.

Final plant schedule is dependant on availability of species.

General: Provide provenance plants with the following characteristics:

- Large healthy root systems, with no evidence of root curl, restriction or damage.
- Vigorous, well established, free from disease and pests, of good form consistent with the species or variety.
- Hardened off, not soft or forced, and suitable for planting in the natural climatic conditions prevailing at the site.

Replacement: Replace damaged or failed plants with plants of the same type and size.

Plant containers

General: Supply plants in weed-free containers of the required size.

Labeling

Label at least one plant of each species or variety in a batch with a durable, readable tag.

Storage

Deliver plant material to the site on a day to day basis, and plant immediately after delivery.

Locations

Final locations to be set out in on site to the satisfaction of the Superintendent. If it appears necessary to vary plant locations and spacing's to avoid service lines, or to cover the area uniformly, or for other reasons, give notice.

Planting conditions

Do not plant in unsuitable weather conditions such as extreme heat, cold, wind or rain. In other than sandy soils, suspend excavation when the soil is wet, or during frost periods.

Placing

Plants are to be installed as indicated in the drawings. Remove the plant from the container with minimum disturbance to the root ball, ensure that the root ball is moist and place it in its final position, in the centre of the hole and plumb, and with the top soil level of the plant root ball level with the finished surface of the surrounding soil.

Fertilising and Water Crystals

Install slow release fertiliser in all terrestrial and bioretention basin plantings, place fertiliser pellets into the plant hole at the time of planting. Install water crystals with the fertiliser as per manufacturers recommendation.

See Deatil 1 sheet 01

Application rate (kg/ha): as recommended by manufacturer.

Backfilling

Backfill with topsoil mixture. Lightly tamp and water to eliminate air pockets. Ensure that topsoil is not placed over the top of the root ball, so that the plant stem remains the same height above ground as it was in the container.

Watering

Depending on weather conditions installation of a temporary irrigation systems may be required in order to maintain plant health.

An allowance of 40mm per plant per week should be made in the absence of rainfall.

MAINTENANCE

Establishment Period (EP) -The Ep will begin from the Practical Completion of the landscape works for the period of 12 weeks.

Maintenance Period (MP) - Maintenance is to continue for a period of three years or until the following performance criteria can be demonstrated to be achieved:

Performance Criteria

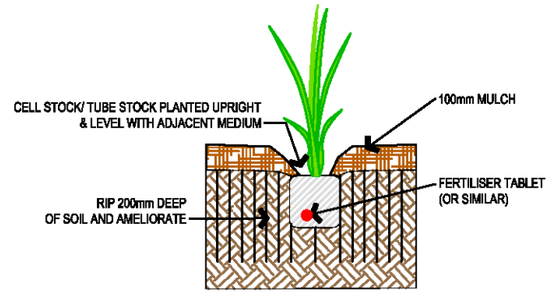
A minimum of 80% survival rate of the densities provided above for each strata (e.g. tree, shrub and groundcover), any localised plant failure within planting areas are addressed with no area larger than 2 m x 2 m without surviving plants at the end of each year. There must be maximum 5% weeds or less within the project extents.

REPORTING

DPI Approval, Section 22 requires the approval holder to provide a report on the implementation of the prescriptions detailed in the vegetation management plan (Ecological, 2016). This report is to include:

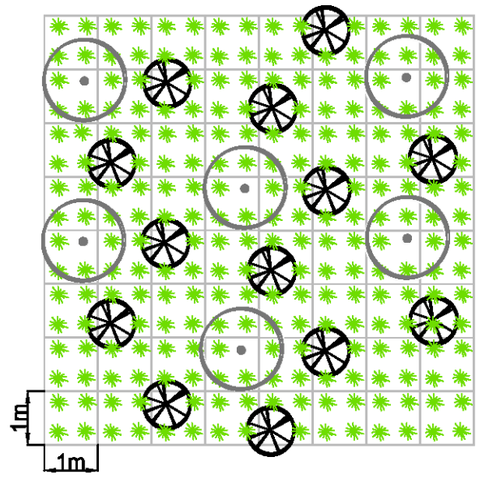
- a schedule and map showing location, density and planting date of species planted
- percentage cover (natives and weed species)
- problems encountered with establishment
- details of staged activities
- photographs

A report is to be provided at the completion of the revegetation works and at every twelve months up to the end of the maintenance period.



DETAIL 1 - TYPICAL PLANTING DETAIL (NTS)

Areas of Jute matting do not require mulch



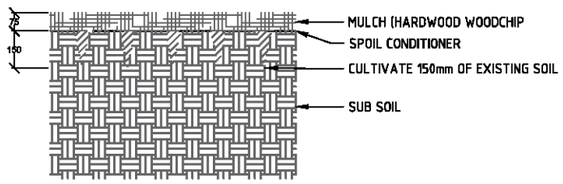
SPECIES LEGEND

GRASS/GROUNDCOVER - 4/m²

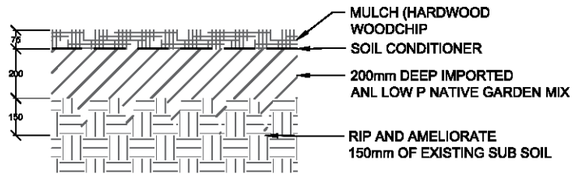
SHRUB - 1/5m²

TREE - 1/10m²

DETAIL 2 - TERRESTRIAL PLANTING MATRIX (NTS)



DETAIL 3 - SOIL PREPARATION - EXISTING SURFACE (NTS)



DETAIL 4 - SOIL PREPARATION - SURFACE IN CUT (NTS)

AWC Australian Wetlands Consulting Pty Ltd

[redacted]

CLIENT

CCL DEVELOPMENT

REV.	ISSUE / AMENDMENTS	DATE
1	FOR APPROVAL	20.11.2020

DESIGNED DMC/SS

DRAWN SS

CHECKED DMC

PROJECT: HIGHLAND VIEWS GLENMORE PARK

DRAWING: PLANTING NOTE & SCHEDULE

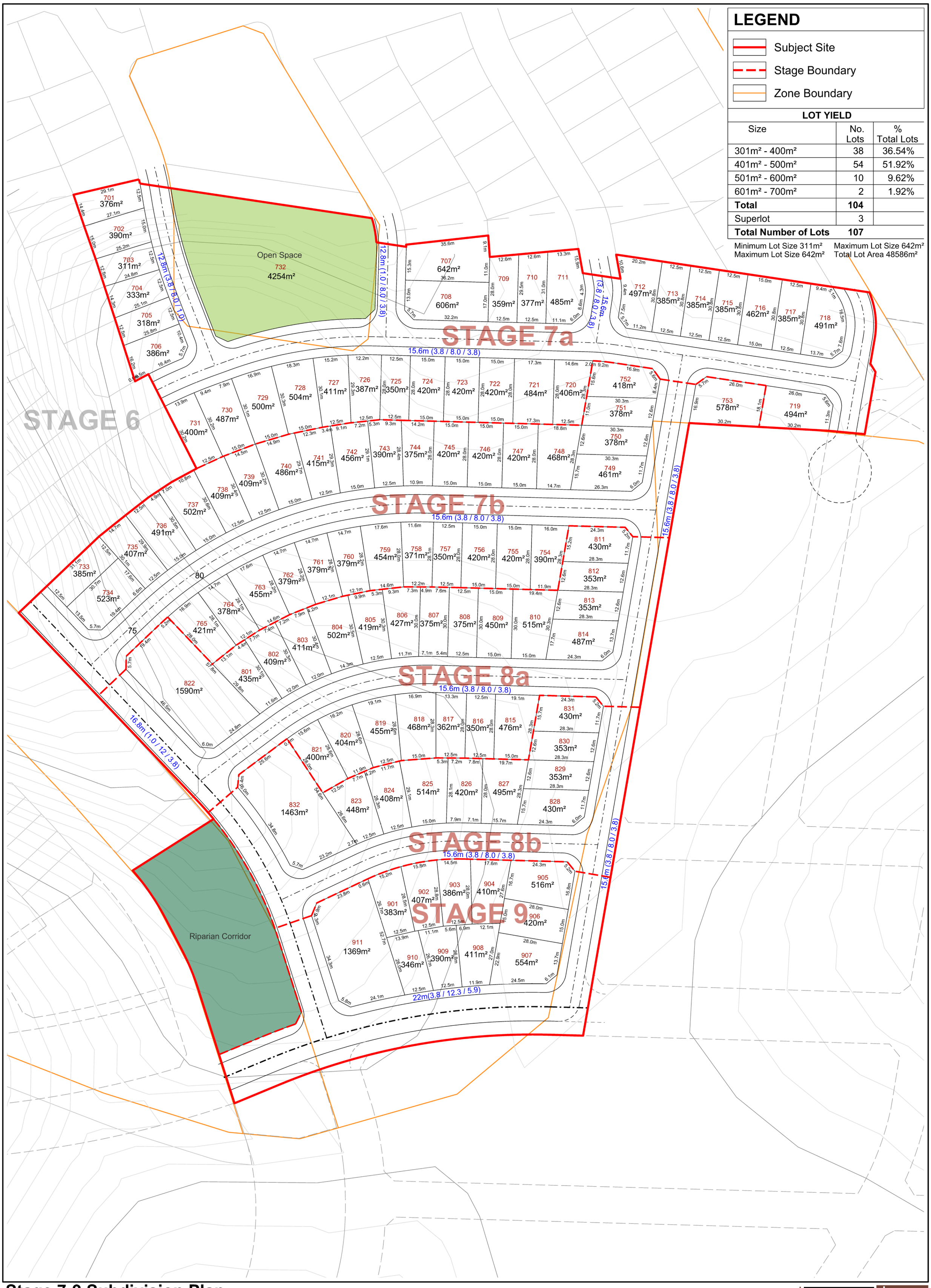
DWG No. 3-17857A_DD_07

CAD FILE No. 3-17857_Highland_DD.dwg

SCALE

DRAWING CREATED 18/07/2017

REV. 1



LEGEND

- Subject Site
- Stage Boundary
- Zone Boundary

LOT YIELD

Size	No. Lots	% Total Lots
301m² - 400m²	38	36.54%
401m² - 500m²	54	51.92%
501m² - 600m²	10	9.62%
601m² - 700m²	2	1.92%
Total	**104**	
Superlot	3	
Total Number of Lots	**107**	

Minimum Lot Size 311m² Maximum Lot Size 642m²
Maximum Lot Size 642m² Total Lot Area 48586m²

Stage 7-9 Subdivision Plan

HIGHLAND VIEWS

NORTH

5 0 10 20 30 40 50 60 70 metres

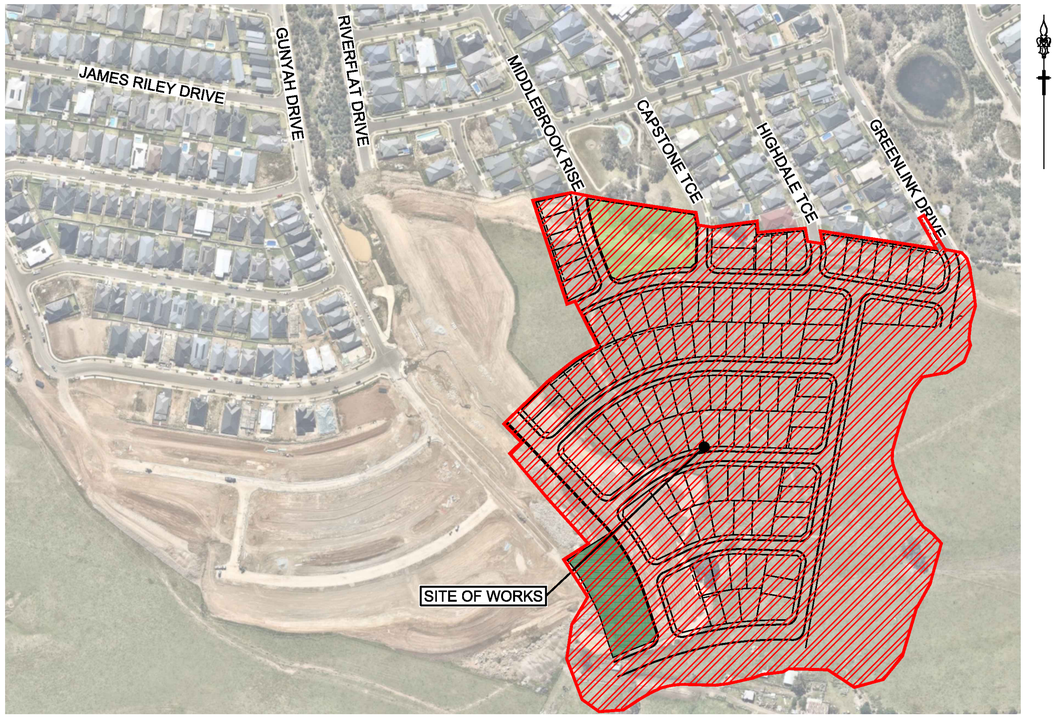
Ref: CCLGP-3-009-1	Date: 12/11/2020	Revision: D	Scale: 1:1,000@A2

Note: All areas and dimensions subject to detailed survey

design+ PLANNING

VIANELLO HOLDINGS PTY LTD

GLENMORE PARK - PRECINCT G
STAGE 7, 8 & 9
PROPOSED LOT, ROAD AND DRAINAGE WORKS
DEVELOPMENT APPLICATION



CIVIL PLAN INDEX		
PLAN NO.	PLAN NAME	REV
9784-13-DA001	COVER SHEET	A
9784-13-DA002	SITE PLAN , CUT & FILL PLAN	A
9784-13-DA003	ENGINEERING PLAN SHEET 1	A
9784-13-DA004	ENGINEERING PLAN SHEET 2	A
9784-13-DA005	SOIL & WATER MANAGEMENT PLAN	A
9784-13-DA010	SITE SECTIONS SHEET 1	A
9784-13-DA011	SITE SECTIONS SHEET 2	A
9784-13-DA012	SITE SECTIONS SHEET 3	A
9784-13-DA013	SITE SECTIONS SHEET 4	A
9784-13-DA014	SITE SECTIONS SHEET 5	A
9784-13-DA015	TYPICAL SECTIONS	A
9784-13-DA020	ROAD LONGITUDINAL SECTIONS SHEET 1	A
9784-13-DA021	ROAD LONGITUDINAL SECTIONS SHEET 2	A
9784-13-DA022	ROAD LONGITUDINAL SECTIONS SHEET 3	A
9784-13-DA023	ROAD LONGITUDINAL SECTIONS SHEET 4	A
9784-13-DA024	TYPICAL RETAINING WALL DETAILS	A

Plotted: 19 November , 2020 5:47:02 PM File Name: J:\9784 - Glenmore Park Vianello Masterplan\01 - Civil Design\CD\DA\Stage 7, 8, & 9\9784-13-DA001.dwg

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	AMENDMENT	DES	DRN	CKD	APR	DATE

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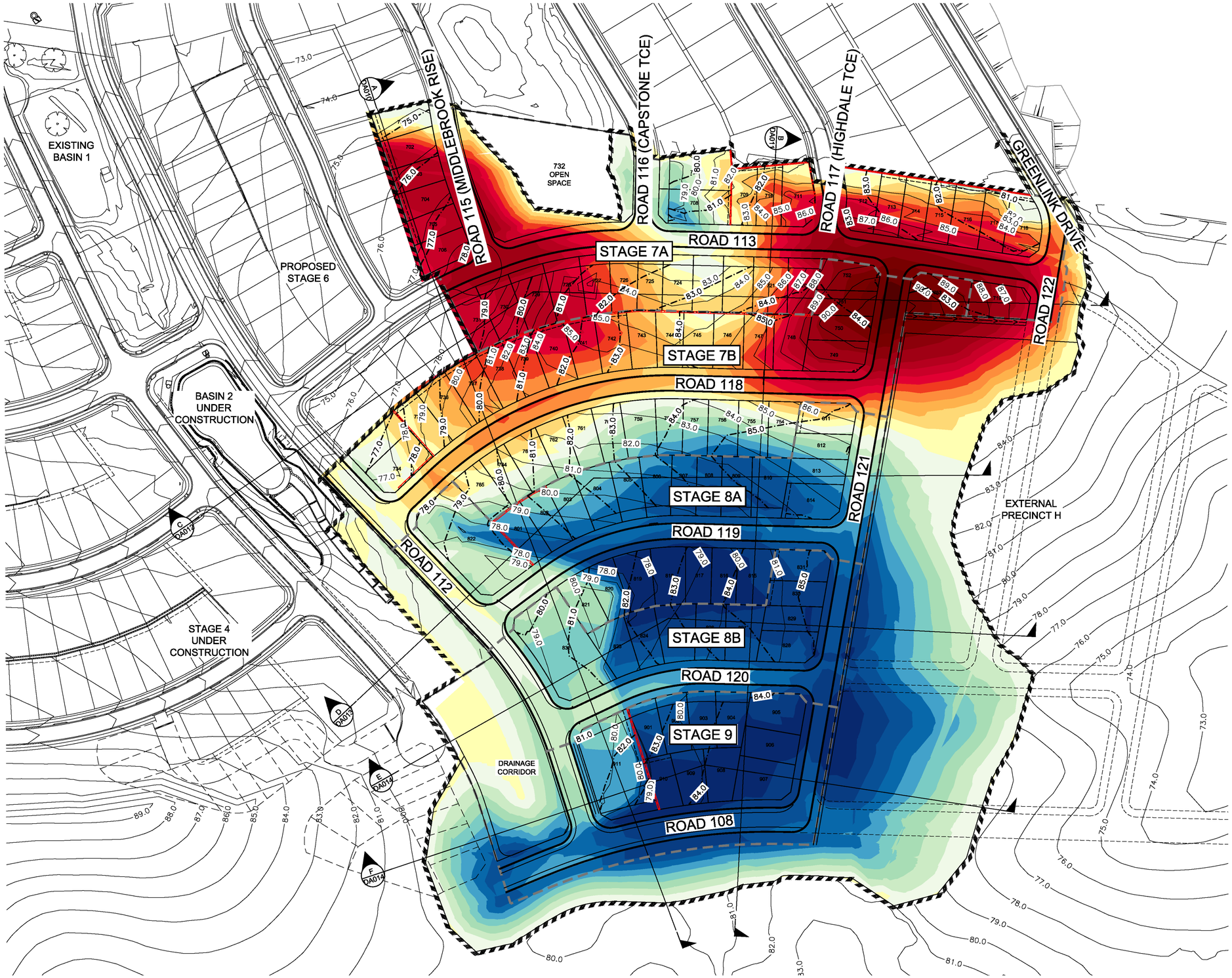
GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
COVER SHEET

PROJECT No: 9784-13
SHEET No: DA001

AZIMUTH: M.G.A. | DATUM: A.H.D. | ORIGIN: | PLAN No: 9784-13-DA001 | A



LEGEND

Lower_value		Upper_value	Colour
-9	to	-8	Meters
-8	to	-7	Meters
-7	to	-6	Meters
-6	to	-5	Meters
-5	to	-4	Meters
-4	to	-3.5	Meters
-3.5	to	-3	Meters
-3	to	-2.5	Meters
-2.5	to	-2	Meters
-2	to	-1.5	Meters
-1.5	to	-1	Meters
-1	to	-0.5	Meters
-0.5	to	0	Meters
0	to	0.5	Meters
0.5	to	1	Meters
1.	to	1.5	Meters
1.5	to	2	Meters
2	to	2.5	Meters
2.5	to	3	Meters
3	to	3.5	Meters
3.5	to	4	Meters
4	to	5	Meters
5	to	6	Meters

1:1000 (AT A1)
1:2000 (AT A3)

20 10 0 10 20 30 40 50 60 70 80 90 100

METRES

A	ISSUED FOR CLIENT REVIEW	CC	NAF	MS	RO	19/11/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
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GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
SITE PLAN , CUT & FILL PLAN

PROJECT No: 9784-13
SHEET No: DA002

AZIMUTH: M.G.A. | DATUM: A.H.D. | ORIGIN: | PLAN No: 9784-13-DA002 | A

Plotted: 19 November , 2020 5:32:07 PM File Name: J:\9784 - Glenmore Park Vianello Masterplan\01 - Civil Design\CD\DA\Stage 7, 8, & 9\9784-13-DA002.dwg

ROAD 115 (MIDDLEBROOK RISE)
ROAD 116 (CAPSTONE TCE)
ROAD 117 (HIGHDALE TCE)
GREENLINK DRIVE
ROAD 122
ROAD 113
ROAD 118
ROAD 119
ROAD 112
ROAD 111
RW 1A
RW 1B
RW 10
RW 11
RW 12
RW 13
RW 14
STAGE 7A
STAGE 7B
STAGE 8A
732 OPEN SPACE
PROPOSED STAGE 6
EXTERNAL PRECINCT H
SWALE / CATCHDRAIN
1:5 BATTER
1:7 BATTER

REFER TO DRAWING DA004 FOR CONTINUATION

1:1000 (AT A1)
1:2000 (AT A3)

20 10 0 10 20 30 40 50 60 70 80 90 100
METRES

LEGEND

- PROPOSED DRAINAGE PITS
- PROPOSED DRAINAGE PIPE (5YR PIPE)
- DRAINAGE EASEMENT
- FLOW DIRECTION OVERLAND
- 70.0 DESIGN CONTOUR
- 70.0 EXISTING CONTOUR
- LIMIT OF WORKS
- PROPOSED RETAINING WALL
- EXISTING RETAINING WALL
- TREE TO BE REMOVED
- EXISTING TREE TO BE RETAINED
- SWALE / CATCHDRAIN
- STAGE BOUNDARY

A	ISSUED FOR CLIENT REVIEW	CC	NAF	MS	RO	19/11/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
[redacted]

CLIENT: [redacted]

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GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
ENGINEERING PLAN
SHEET 1

PROJECT No: 9784-13
SHEET No: DA003

AZIMUTH: M.G.A. | DATUM: A.H.D. | ORIGIN: | PLAN No: 9784-13-DA003 | A

Plotted: 19 November , 2020 5:41:13 PM File Name: J:\9784 - Glenmore Park Vianello Masterplan\01 - Civil Design\CD\DA\Stage 7, 8, & 9\9784-13-DA003.dwg

REFER TO DRAWING DA003 FOR CONTINUATION

A	ISSUED FOR CLIENT REVIEW	CC	NAF	MS	RO	19/11/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
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CLIENT: [redacted]

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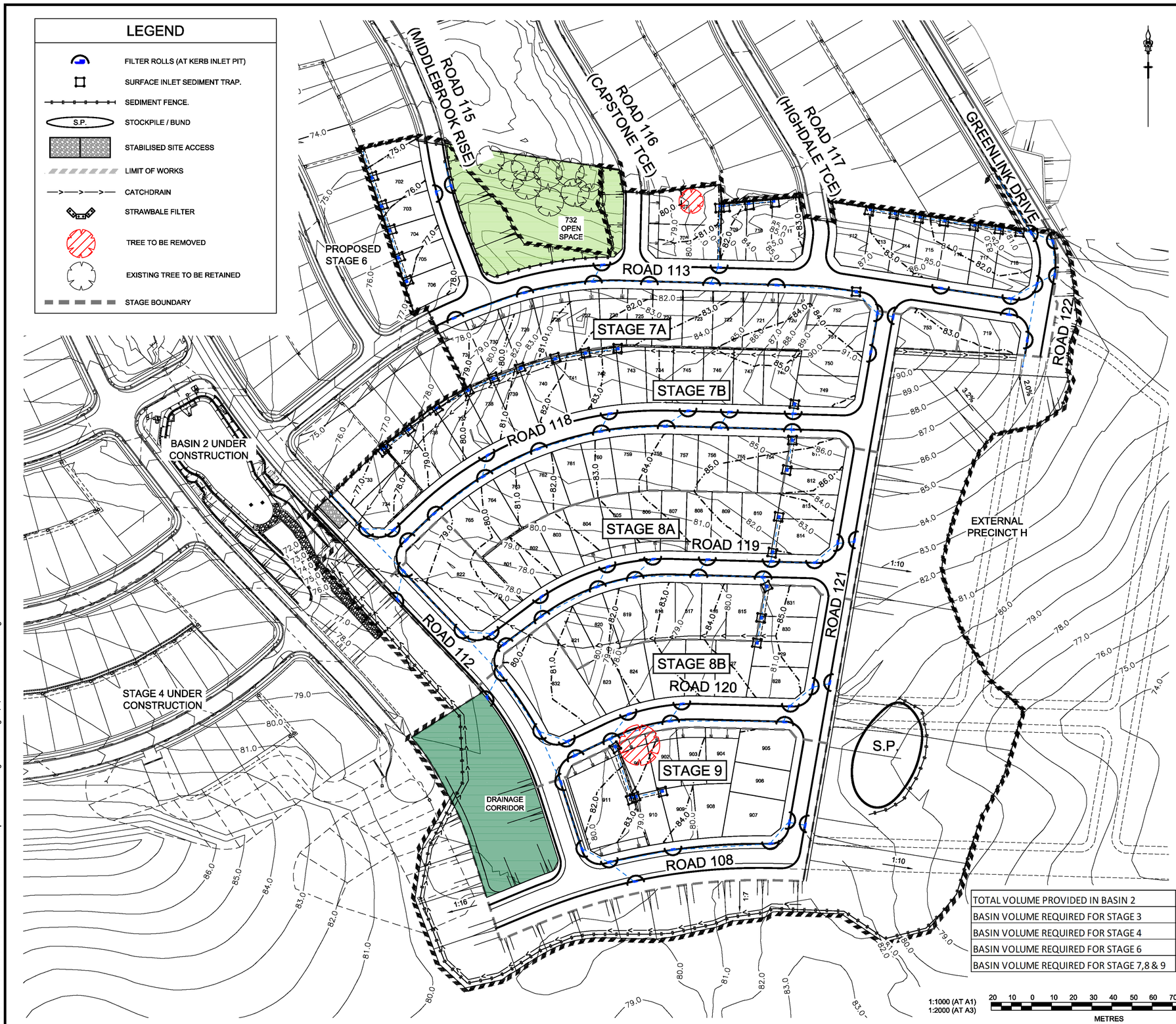
GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
ENGINEERING PLAN
SHEET 2

PROJECT No: 9784-13
SHEET No: DA004

AZIMUTH: M.G.A. | DATUM: A.H.D. | ORIGIN: | PLAN No: 9784-13-DA004 | A

Plotted: 19 November , 2020 5:43:01 PM File Name: J:\9784 - Glenmore Park Vianello Masterplan\01 - Civil Design\CD\DA\Stage 7, 8, & 9\9784-13-DA004.dwg



TOTAL VOLUME PROVIDED IN BASIN 2	3384	m^3
BASIN VOLUME REQUIRED FOR STAGE 3	318	m^3
BASIN VOLUME REQUIRED FOR STAGE 4	729	m^3
BASIN VOLUME REQUIRED FOR STAGE 6	489	m^3
BASIN VOLUME REQUIRED FOR STAGE 7,8 & 9	1336.2	m^3

1:1000 (AT A1)
1:2000 (AT A3)

20 10 0 10 20 30 40 50 60 70 80 90 100
METRES

Note: These "Detailed Calculation" spreadsheets relate only to high erosion hazard lands as identified in figure 4.6 or where the designer chooses to use the RUSLE to size sediment basins. The "Standard Calculation" spreadsheets should be used on low erosion hazard lands as identified by figure 4.6 and where the designer chooses not to run the RUSLE in calculations.

1. Site Data Sheet

Site Name: [redacted]

Site Location: Glenmore Park

Precinct: Stage 7,8 & 9

Description of Site: Temporary Sediment Basin for Stage 7, 8 & 9

Site area	Sub-catchments						Remarks
	ST7-9						
Total catchment area (ha)	10.8						
Disturbed catchment area (ha)	10.8						

Soil analysis (enter sediment type if known, or laboratory particle size data)

Sediment Type (C, F or D) if known:	D						From Appendix C
% sand (fraction 0.02 to 2.00 mm)	10						Soil texture should be assessed through
% silt (fraction 0.002 to 0.02 mm)	30						mechanical dispersion only. Dispersing
% clay (fraction finer than 0.002 mm)	60						agents (e.g. Calgon) should not be used
Dispersion percentage	100.0						E.g. enter 10 for dispersion of 10%
% of whole soil dispersible	75						See Section 6.3.3(e). Auto-calculated
Soil Texture Group	D						Automatic calculation from above

Rainfall data

Design rainfall depth (days)	5						See Sections 6.3.4 (d) and (e)
Design rainfall depth (percentile)	75						See Sections 6.3.4 (f) and (g)
x-day, y-percentile rainfall event	21.8						See Section 6.3.4 (h)
Rainfall R-factor (if known)	2500						See Appendix B
IFD: 2-year, 6-hour storm (if known)	10.2						See IFD chart for the site

RUSLE Factors

Rainfall erosivity (*R*-factor)	2500						Auto-filled from above
Soil erodibility (*K*-factor)	0.038						
Slope length (m)	80						
Slope gradient (%)	4						RUSLE LS factor calculated for a high
Length/gradient (*LS*-factor)	0.91						rill/interrill ratio.
Erosion control practice (*P*-factor)	1.3						
Ground cover (*C*-factor)	1						

Calculations

Soil loss (t/ha/yr)	113						
Soil Loss Class	1						See Section 4.4.2(b)
Soil loss (m^3/ha/yr)	87						
Sediment basin storage volume, m^3	159						See Sections 6.3.4(i) and 6.3.5 (e)

4. Volume of Sediment Basins, *Type D* and *Type F* Soils

Basin volume = settling zone volume + sediment storage zone volume

Settling Zone Volume

The settling zone volume for *Type F* and *Type D* soils is calculated to provide capacity to contain all runoff expected from up to the y-percentile rainfall event. The volume of the basin's settling zone (V) can be determined as a function of the basin's surface area and depth to allow for particles to settle and can be determined by the following equation:

$$V = 10 \times C_v \times A \times R_{x\text{-day},\ y\text{-}\%\text{ile}}\ (m^3)$$

where:

10 = a unit conversion factor

C_v = the volumetric runoff coefficient defined as that portion of rainfall that runs off as stormwater over the x-day period

$R_{x\text{-day},\ y\text{-}\%\text{ile}}$ = is the x-day total rainfall depth (mm) that is not exceeded in y percent of rainfall events. (See Sections 6.3.4(d), (e), (f), (g) and (h)).

A = total catchment area (ha)

Sediment Storage Zone Volume

In the detailed calculation on Soil Loss Classes 1 to 4 lands, the sediment storage zone can be taken as 50 percent of the settling zone capacity. Alternately designers can design the zone to store the 2-month soil loss as calculated by the RUSLE (Section 6.3.4(i)(ii)). However, on Soil Loss Classes 5, 6 and 7 lands, the zone must contain the 2-month soil loss as calculated by the RUSLE (Section 6.3.4(i)(iii).

Place an "X" in the box below to show the sediment storage zone design parameters used here:

	50% of settling zone capacity,
x	2 months soil loss calculated by RUSLE

Total Basin Volume

Site	C_v	$R_{x\text{-day},\ y\text{-}\%\text{ile}}$	Total catchment area (ha)	Settling zone volume (m^3)	Sediment storage volume (m^3)	Total basin volume (m^3)
ST7-9	0.50	21.8	10.8	1177.2	159	1336.2
	0.50					
	0.50					
	0.50					
	0.50					

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J. WYNDHAM PRINCE
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[redacted]

CLIENT: [redacted]

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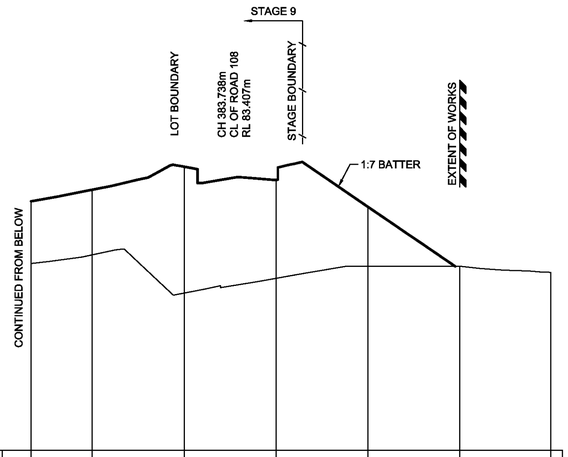
GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
SOIL & WATER MANAGEMENT PLAN

PROJECT No: 9784-13
SHEET No: DA005

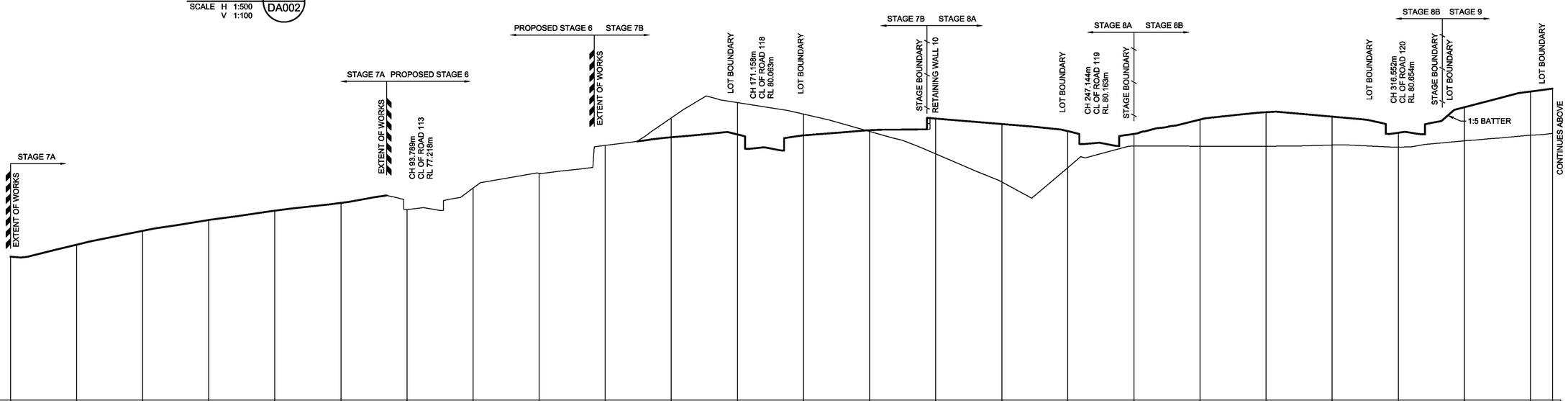
AZIMUTH: M.G.A. | DATUM: A.H.D. | ORIGIN: | PLAN No: 9784-13-DA005 | A



DATUM 74.0

DESIGN SURFACE	82.124	82.503	83.252	82.823	81.942	79.899		
EXISTING SURFACE	80.092	80.375	79.126	79.611	80.000	80.004	79.803	
CHAINAGE	350.000	360.000	375.000	390.000	405.000	420.000	434.881	

SECTION A DA002
SCALE H 1:500
V 1:100



DATUM 68.0

DESIGN SURFACE	74.504	75.046	75.674	76.167	76.588	76.942					79.917	80.047	80.003	80.239	80.764	80.516	80.195	80.069	80.721	81.054	80.853	80.122	81.277	81.992	82.124	
EXISTING SURFACE	74.504	75.046	75.674	76.167	76.588	76.942	76.642	77.609	78.259	79.547	81.821	81.491	80.967	80.181	79.165	77.892	78.538	79.516	79.513	79.508	79.566	79.468	79.757	80.009	80.092	
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	180.000	195.000	210.000	225.000	240.000	255.000	270.000	285.000	300.000	315.000	330.000	345.000	350.000	

SECTION A DA002
SCALE H 1:500
V 1:100

H 1:500 (AT A1) 10 0 10 20 30 40 50 METRES

V 1:100 (AT A1) 2 1 0 1 2 3 4 5 6 7 8 9 10 METRES

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	AMENDMENT	DES	DRN	CKD	APR	DATE

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[redacted]

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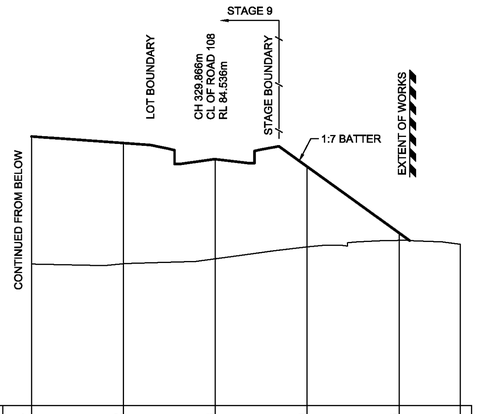
GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
SITE SECTIONS
SHEET 1

PROJECT No: 9784-13
SHEET No: DA010

AZIMUTH: M.G.A. | DATUM: A.H.D. | ORIGIN: | PLAN No: 9784-13-DA010 | A

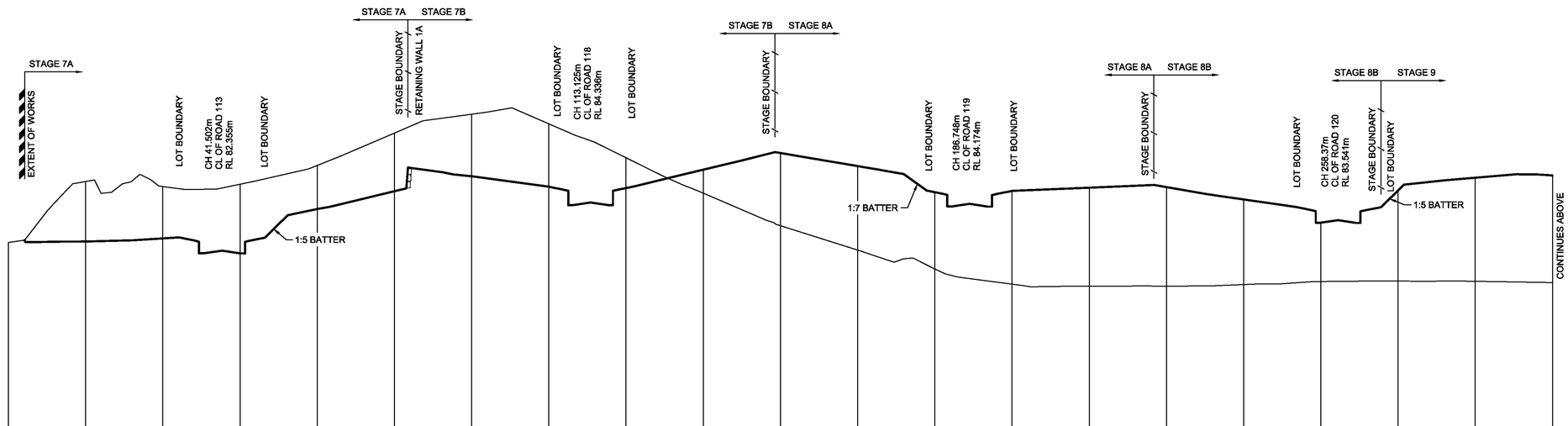
Plotted: 19 November , 2020 5:34:04 PM File Name: J:\9784 - Glenmore Park Vianello Masterplan\01 - Civil Design\CD\DA\Stage 7, 8, & 9\9784-13-DA010.dwg



DATUM 76.0

DESIGN SURFACE	84.787	84.572	84.043	83.800	81.636	
EXISTING SURFACE	80.623	80.633	80.794	81.162	81.394	81.270
CHAINAGE	300.000	315.000	330.000	345.000	360.000	370.000

SECTION B DA002
SCALE H 1:500
V 1:100



DATUM 75.0

DESIGN SURFACE	82.182	82.221	82.339	81.758	83.481	84.174	84.755	84.349	84.296	85.010	85.658	85.150	84.135	84.184	84.311	84.333	83.856	82.953	84.199	84.698	84.787
EXISTING SURFACE	82.182	84.550	84.353	84.445	85.177	86.432	87.165	86.792	85.475	84.102	82.835	81.888	81.149	80.586	80.482	80.482	80.547	80.664	80.680	80.674	80.623
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	180.000	195.000	210.000	225.000	240.000	255.000	270.000	285.000	300.000

SECTION B DA002
SCALE H 1:500
V 1:100

H 1:500 (AT A1) 10 0 10 20 30 40 50 METRES

V 1:100 (AT A1) 2 1 0 1 2 3 4 5 6 7 8 9 10 METRES

A	ISSUED FOR CLIENT REVIEW	CC	NAF	MS	RO	19/11/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

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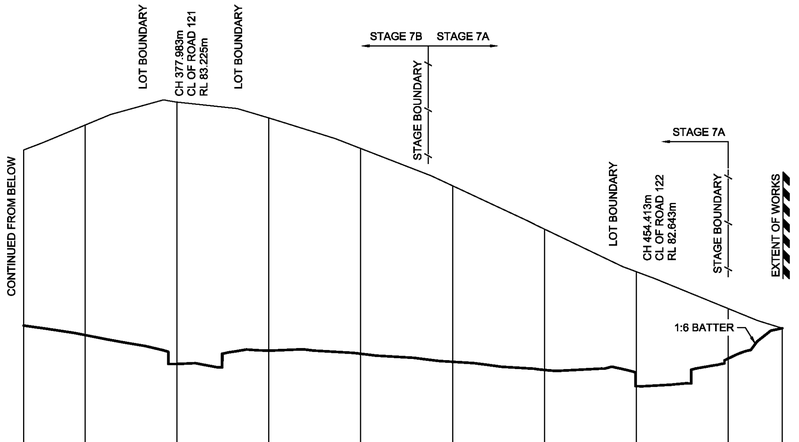
GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
SITE SECTIONS
SHEET 2

PROJECT No: 9784-13
SHEET No: DA011

AZIMUTH: M.G.A. | DATUM: A.H.D. | ORIGIN: | PLAN No: 9784-13-DA011 | A

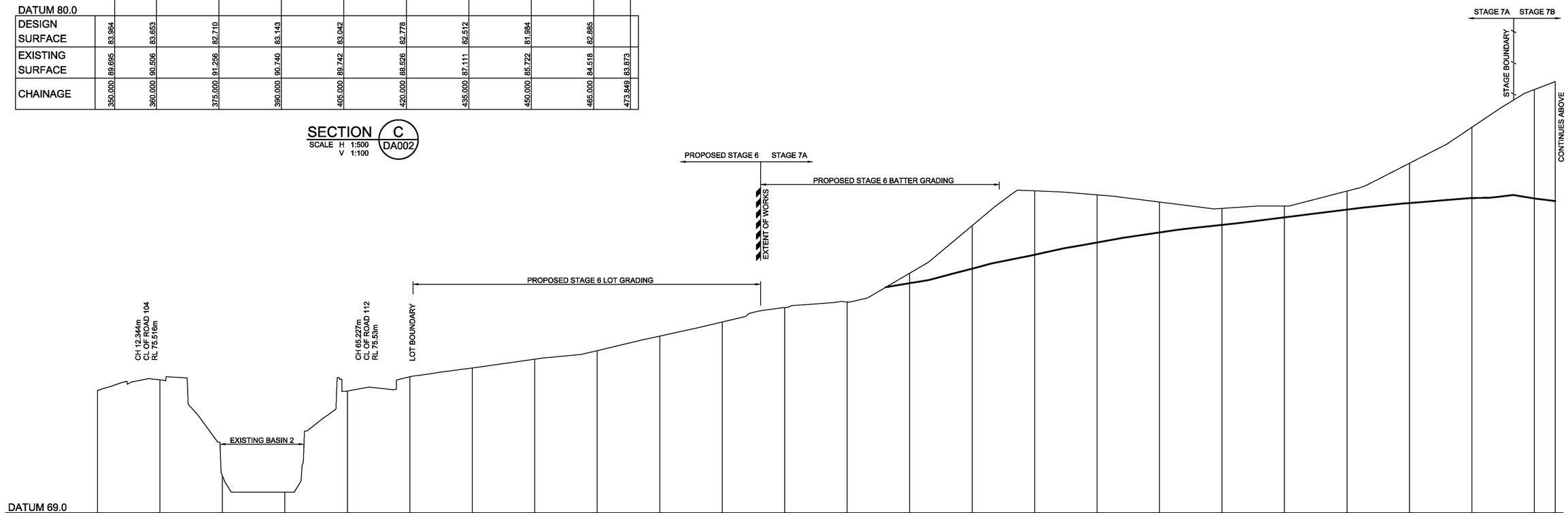
Plotted: 19 November , 2020 5:34:19 PM File Name: J:\9784 - Glenmore Park Vianello Masterplan\01 - Civil Design\CD\DA\Stage 7, 8, & 9\9784-13-DA011.dwg



DATUM 80.0

DESIGN SURFACE	83.964	83.653	82.710	83.143	83.042	82.778	82.512	81.984	82.885	
EXISTING SURFACE	89.695	90.506	91.256	90.740	89.742	88.526	87.111	85.722	84.518	83.873
CHAINAGE	350.000	360.000	375.000	390.000	405.000	420.000	435.000	450.000	465.000	473.849

SECTION C DA002
SCALE H 1:500
V 1:100



DATUM 69.0

DESIGN SURFACE															80.025	80.719	81.385	81.973	82.454	82.819	83.180	83.552	83.867	84.107	84.088	83.964
EXISTING SURFACE	74.871	75.387	70.772	70.000	74.849	75.533	75.954	76.375	76.783	77.483	78.161	78.854	79.123	80.501	80.501	82.783	84.453	84.258	83.914	83.609	83.727	84.443	85.776	87.504	89.312	89.695
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	180.000	195.000	210.000	225.000	240.000	255.000	270.000	285.000	300.000	315.000	330.000	345.000	350.000	

SECTION C DA002
SCALE H 1:500
V 1:100

H 1:500 (AT A1) 10 0 10 20 30 40 50 METRES

V 1:100 (AT A1) 2 1 0 1 2 3 4 5 6 7 8 9 10 METRES

A	ISSUED FOR CLIENT REVIEW	CC	NAF	MS	RO	19/11/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
[redacted]

CLIENT: [redacted]

STATUS:
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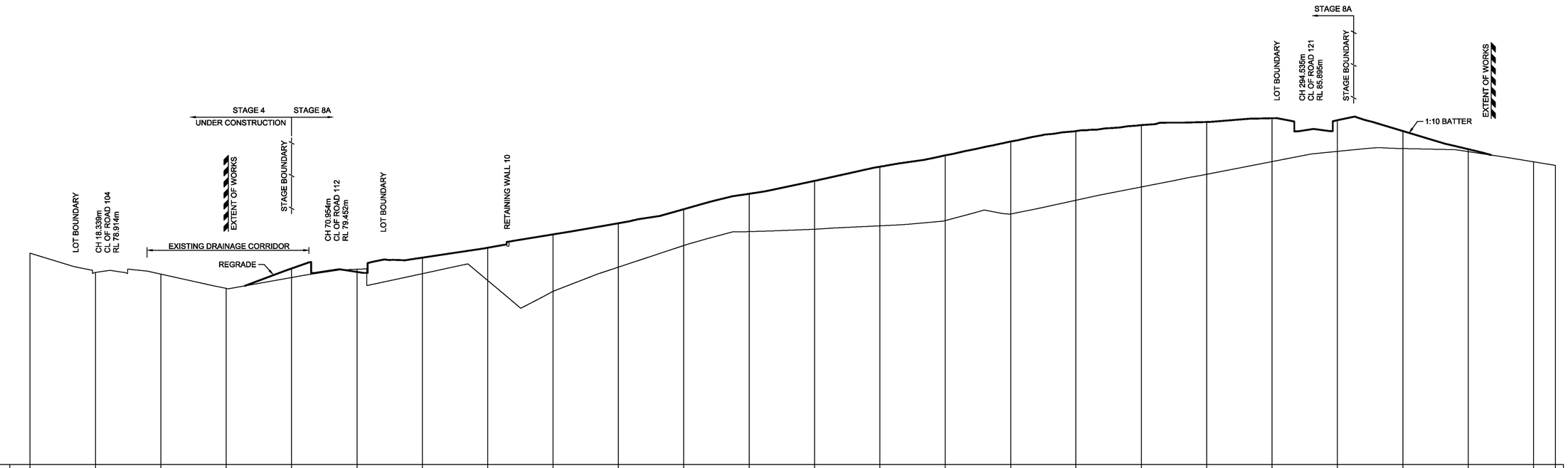
GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
SITE SECTIONS
SHEET 3

PROJECT No: 9784-13
SHEET No: DA012

AZIMUTH: M.G.A. | DATUM: A.H.D. | ORIGIN: | PLAN No: 9784-13-DA012 | A

Plotted: 19 November , 2020 5:34:34 PM File Name: J:\9784 - Glenmore Park Vianello Masterplan\01 - Civil Design\CD\DA\Stage 7, 8, & 9\9784-13-DA012.dwg



DATUM 70.0

DESIGN SURFACE							79.000	78.841	79.495	79.949	80.561	81.074	81.718	82.427	83.019	83.666	84.191	84.826	85.303	85.578	85.719	85.893	85.805	85.308	84.473			
EXISTING SURFACE	79.702	78.816	78.739	78.085	78.585	78.964	78.760	78.449	77.950	79.060	80.052	80.692	80.801	80.958	81.197	81.495	82.129	82.739	83.322	83.904	84.373	84.504	84.362	83.896	83.732			
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	180.000	195.000	210.000	225.000	240.000	255.000	270.000	285.000	300.000	315.000	330.000	345.000	350.000			

SECTION D DA002

SCALE H 1:500
V 1:100

H 1:500 (AT A1) 10 0 10 20 30 40 50 METRES

V 1:100 (AT A1) 2 1 0 1 2 3 4 5 6 7 8 9 10 METRES

A	ISSUED FOR CLIENT REVIEW	CC	NAF	MS	RO	19/11/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

[redacted]

CLIENT: [redacted]

STATUS:
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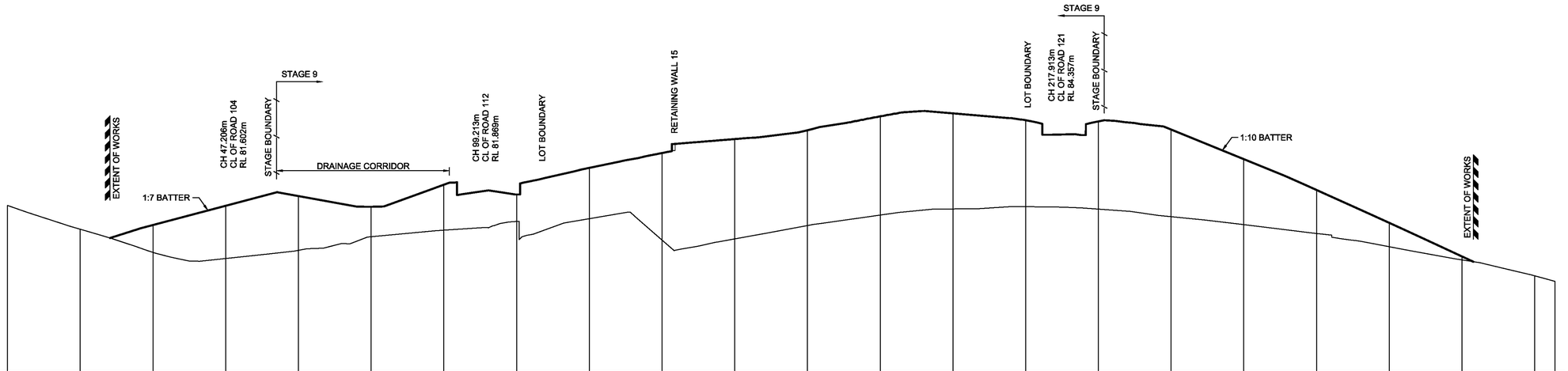
GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
SITE SECTIONS
SHEET 4

PROJECT No: 9784-13
SHEET No: DA013

AZIMUTH: M.G.A. | DATUM: A.H.D. | ORIGIN: | PLAN No: 9784-13-DA013 | A

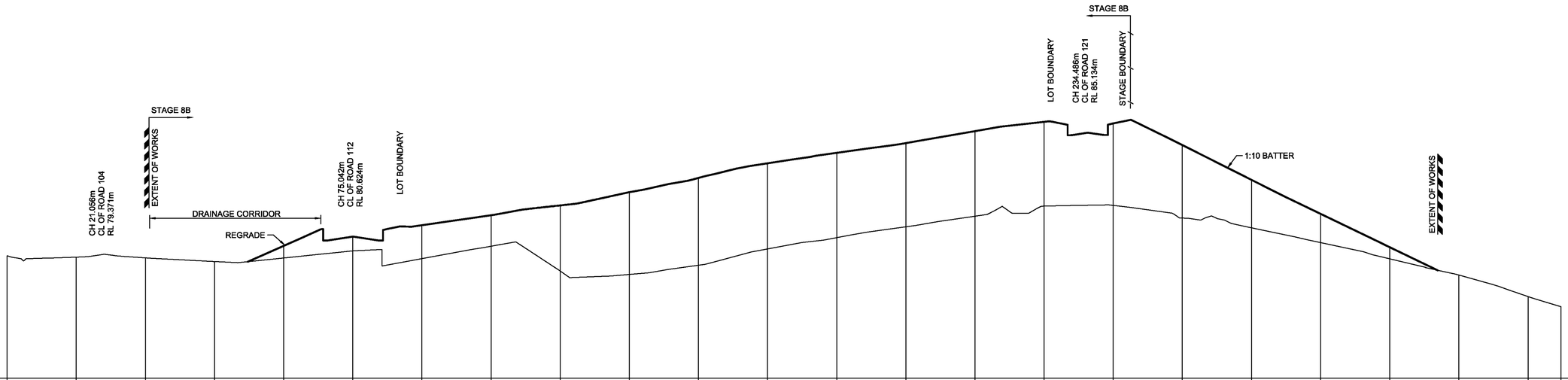
Plotted: 19 November , 2020 5:34:50 PM File Name: J:\9784 - Glenmore Park Vianello Masterplan\01 - Civil Design\CD\DA\Stage 7, 8, & 9\9784-13-DA013.dwg



DATUM 74.0

DESIGN SURFACE			80.055	80.851	81.252	80.810	81.717	81.317	82.413	83.026	83.602	83.966	84.544	84.663	84.381	84.331	83.997	82.774	81.503	80.144	78.758			
EXISTING SURFACE	80.862	79.882	79.925	78.675	79.012	79.574	79.842	80.204	80.317	79.434	79.483	80.036	80.466	80.720	80.814	80.712	80.400	80.073	79.707	79.161	78.615	77.959	77.730
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	180.000	195.000	210.000	225.000	240.000	255.000	270.000	285.000	300.000	315.000	319.169

SECTION F DA002
SCALE H 1:500 V 1:100



DATUM 74.0

DESIGN SURFACE					79.734	80.133	80.629	81.061	81.489	82.061	82.680	83.316	83.770	84.190	84.711	85.116	85.045	84.104	82.596	81.121	79.674			
EXISTING SURFACE	79.307	79.244	79.213	79.054	79.208	79.516	79.179	79.717	78.644	78.494	78.892	79.601	80.089	80.559	81.021	81.460	81.491	80.941	80.517	79.876	79.173	78.468	77.535	77.095
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	180.000	195.000	210.000	225.000	240.000	255.000	270.000	285.000	300.000	315.000	330.000	337.107

SECTION E DA002
SCALE H 1:500 V 1:100

H 1:500 (AT A1) 10 0 10 20 30 40 50 METRES

V 1:100 (AT A1) 2 1 0 1 2 3 4 5 6 7 8 9 10 METRES

A	ISSUED FOR CLIENT REVIEW	CC	NAF	MS	RO	19/11/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
[redacted]

CLIENT: [redacted]

STATUS: ISSUE FOR DA APPROVAL
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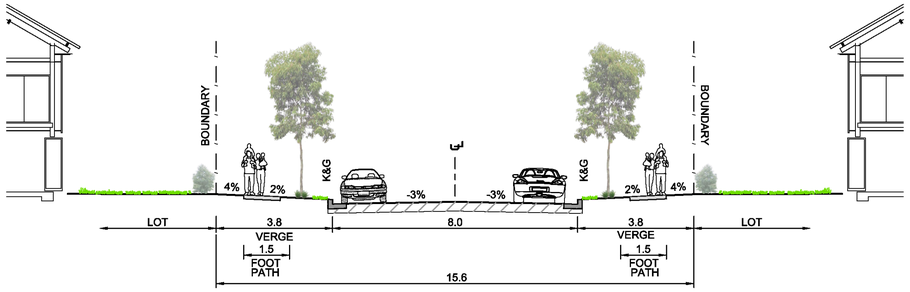
GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
SITE SECTIONS
SHEET 5

PROJECT No: 9784-13
SHEET No: DA014

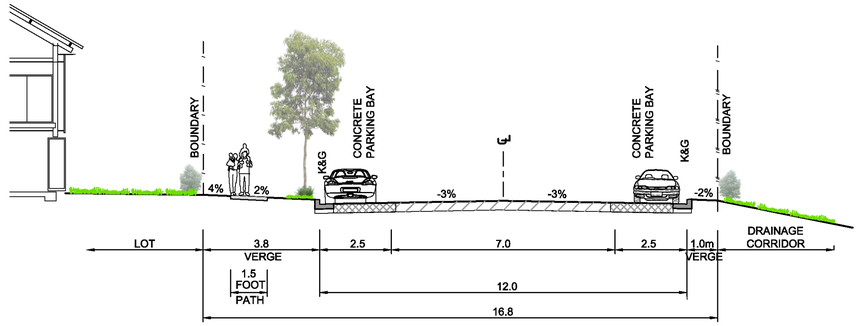
AZIMUTH: M.G.A. | DATUM: A.H.D. | ORIGIN: | PLAN No: 9784-13-DA014 | A

Plotted: 19 November , 2020 5:35:05 PM File Name: J:\9784 - Glenmore Park Vianello Masterplan\01 - Civil Design\CD\DA\Stage 7, 8, & 9\9784-13-DA014.dwg



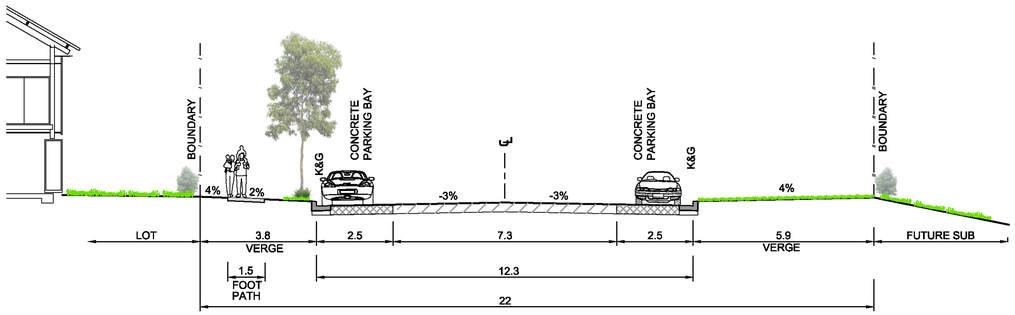
TYPICAL CROSS SECTION

ROAD No.113
(CH 102.0-CH 419.0)
ROAD NO. 117 (HIGHDALE TERRACE)
(CH 33.7 - END)
ROAD No.118,119 &120
(START - END)
SCALE 1:100 NAT



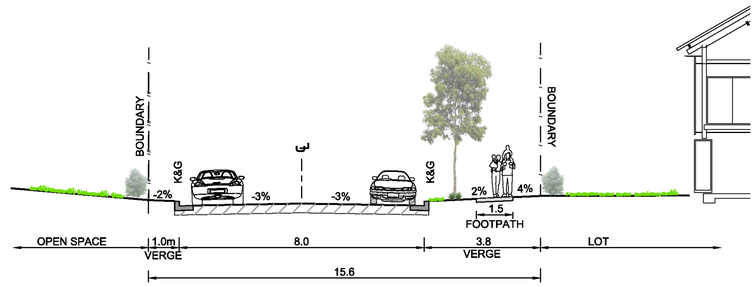
TYPICAL CROSS SECTION

ROAD No.112
(CH 270.0 - END)
SCALE 1:100 NAT



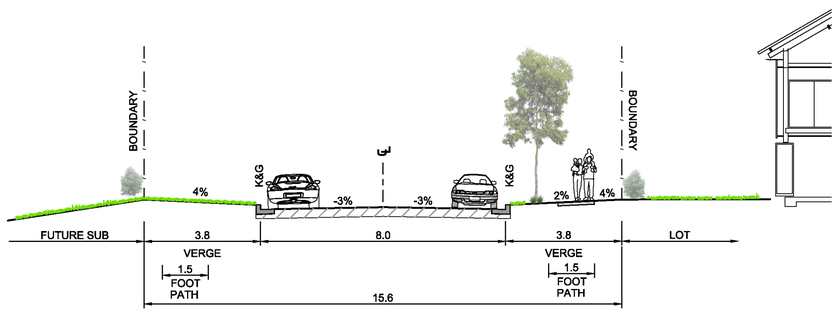
TYPICAL CROSS SECTION

ROAD No.108
(CH 1280.35 - CH 1434.0)
SCALE 1:100 NAT



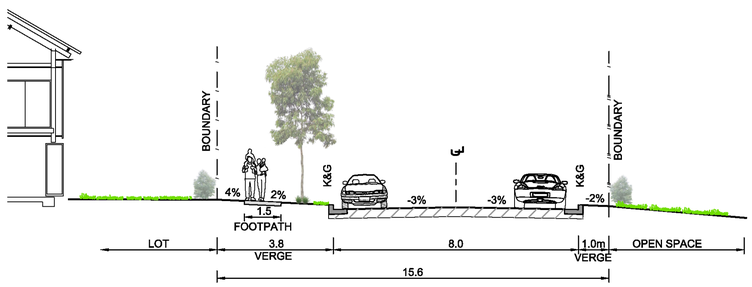
TYPICAL CROSS SECTION

ROAD No. 115 (MIDDLEBROOK RISE)
(CH 30.0-END)
SCALE 1:100 NAT



TYPICAL CROSS SECTION

ROAD No. 121
(START - END)
ROAD No. 122
(START - CH 22.4)
SCALE 1:100 NAT



TYPICAL CROSS SECTION

ROAD No. 116 (CAPSTONE TERRACE)
(CH 28.63-END)
ROAD No. GREENLINK DRIVE
(START - CH 41.69)
SCALE 1:100 NAT

1:100 (AT A1)
1:200 (AT A3)
2 1 0 1 2 3 4 5 6 7 8 9 10
METRES

A	ISSUED FOR CLIENT REVIEW	CC	NAF	MS	RO	19/11/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
[redacted]

CLIENT: [redacted]

STATUS:
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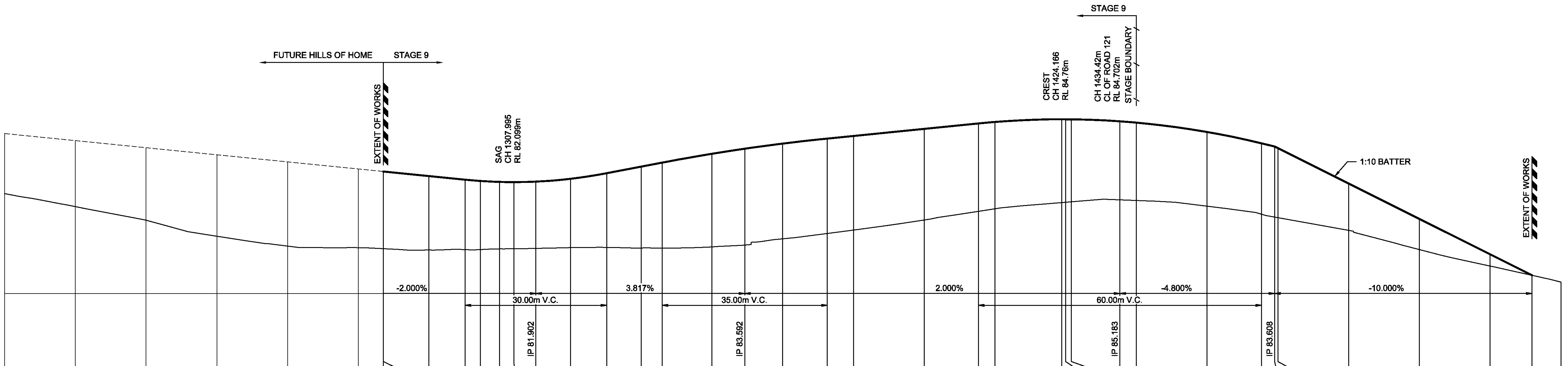
GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
TYPICAL SECTIONS

PROJECT No: 9784-13
SHEET No: DA015

AZIMUTH: M.G.A. | DATUM: A.H.D. | ORIGIN: | PLAN No: 9784-13-DA015 | A

Plotted: 19 November , 2020 5:35:21 PM File Name: J:\9784 - Glenmore Park Vianello Masterplan\01 - Civil Design\CD\DA\Stage 7, 8, & 9\9784-13-DA015.dwg



DATUM 74.0

DESIGN LINE GRADING	84.156	83.856	83.556	83.256	82.956	82.656	82.550	82.549	82.356	82.202
EXISTING SURFACE	81.612	81.061	80.486	79.809	79.390	79.324	79.281	79.281	79.230	79.244
CHAINAGE	1200.000	1215.000	1230.000	1245.000	1260.000	1275.000	1280.305	1280.353	1290.000	1297.680

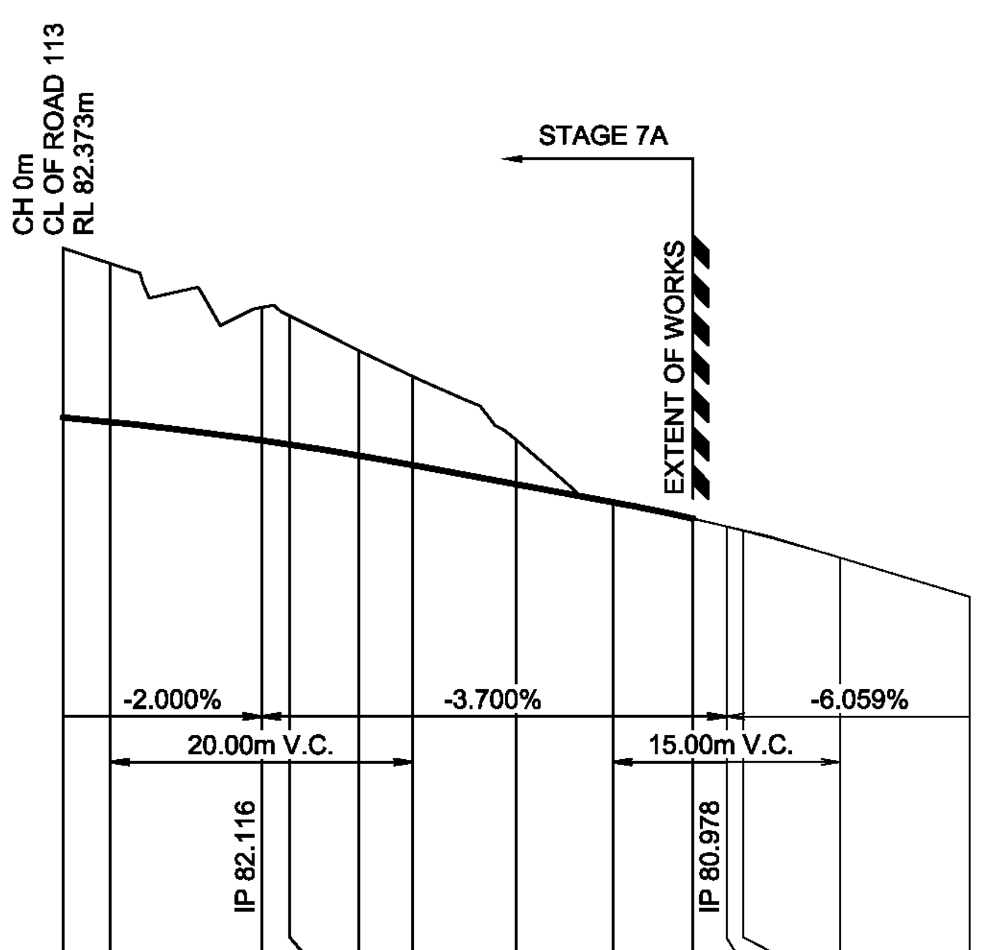
DESIGN LINE GRADING	82.148	82.108	82.099	82.120	82.239	82.475	82.754	82.924	83.298	83.512
EXISTING SURFACE	79.244	79.270	79.278	79.292	79.325	79.334	79.309	79.308	79.356	79.433
CHAINAGE	1300.888	1305.000	1307.995	1312.680	1320.000	1327.680	1335.000	1339.447	1350.000	1356.947

DESIGN LINE GRADING	83.730	83.942	84.053	84.353	84.583	84.646	84.760	84.759	84.757	84.673
EXISTING SURFACE	79.698	79.924	80.069	80.493	80.862	80.969	81.230	81.243	81.264	81.349
CHAINAGE	1365.000	1374.447	1380.000	1395.000	1406.519	1410.000	1424.166	1425.000	1426.230	1436.519

DESIGN LINE GRADING	84.618	84.221	83.743	83.608	83.541	82.041	80.541	79.041	78.153	
EXISTING SURFACE	81.323	81.079	80.739	80.618	80.594	80.056	79.244	78.545	78.153	77.867
CHAINAGE	1440.000	1455.000	1466.519	1469.329	1470.000	1485.000	1500.000	1515.000	1523.884	1530.000

LONGITUDINAL SECTION ROAD 108

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

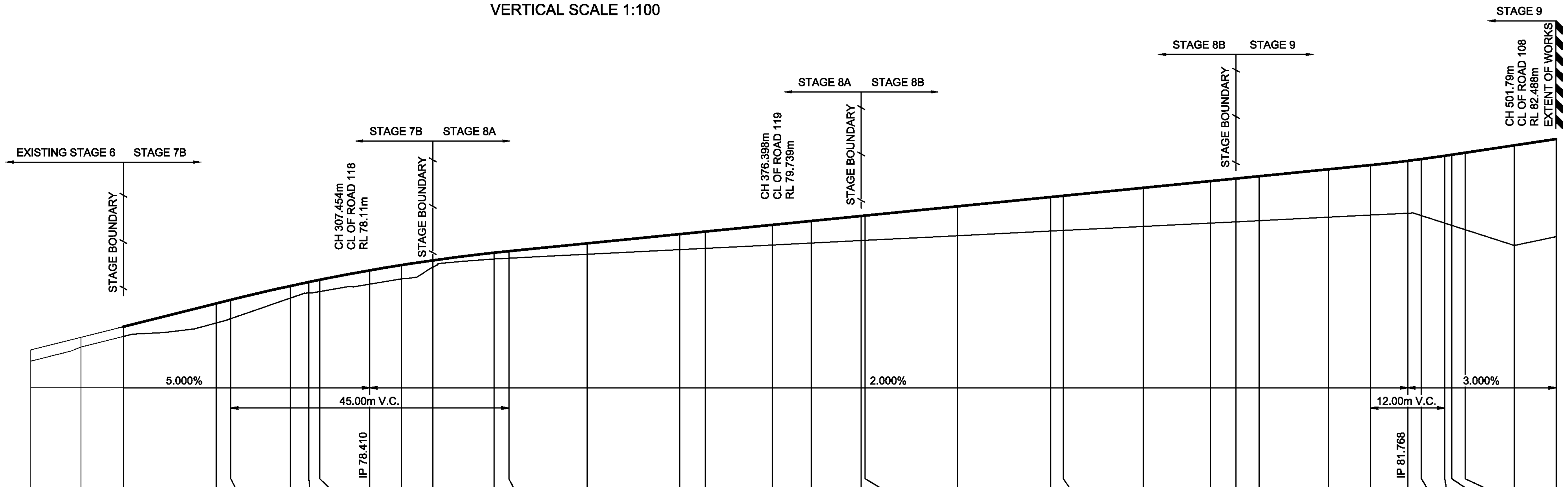


DATUM 72.0

DESIGN LINE GRADING	82.379	82.316	82.073	82.019	81.873	81.746	81.492	81.256	81.038	80.934	80.879	80.524	80.002
EXISTING SURFACE	84.615	84.411	83.833	83.721	83.261	82.916	82.081	81.255	81.035	80.935	80.885	80.524	80.004
CHAINAGE	0.000	3.157	13.157	15.000	19.578	23.157	30.000	36.397	41.690	43.897	45.000	51.397	60.000

LONGITUDINAL SECTION GREENLINK DRIVE

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



DATUM 71.0

DESIGN LINE GRADING	75.667	76.073	76.417	77.167	77.285	77.738	77.864	77.936	78.241	78.412
EXISTING SURFACE	75.304	75.759	76.103	76.536	76.676	77.346	77.512	77.554	77.795	77.967
CHAINAGE	255.000	263.119	270.000	285.000	287.353	297.042	300.000	301.762	309.853	315.000

DESIGN LINE GRADING	78.563	78.811	78.860	79.113	79.413	79.495	79.713	79.838	80.000	80.013
EXISTING SURFACE	78.344	78.609	78.635	78.761	78.911	78.953	79.061	79.124	79.205	79.211
CHAINAGE	320.042	330.000	332.353	345.000	360.000	364.142	375.000	381.254	389.384	390.000

DESIGN LINE GRADING	80.313	80.613	80.654	80.913	81.129	81.213	81.287	81.513	81.648	81.783
EXISTING SURFACE	79.362	79.511	79.532	79.661	79.770	79.811	79.848	79.961	80.029	80.089
CHAINAGE	405.000	420.000	422.053	435.000	445.846	450.000	453.724	465.000	471.784	477.784

DESIGN LINE GRADING	81.841	81.948	81.982	82.047	82.285	
EXISTING SURFACE	80.011	79.768	79.694	79.556	79.046	79.333
CHAINAGE	480.000	483.784	484.924	487.072	495.000	501.790

LONGITUDINAL SECTION ROAD 112

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

H 1:500 (AT A1) 10 0 10 20 30 40 50 METRES

V 1:100 (AT A1) 2 1 0 1 2 3 4 5 6 7 8 9 10 METRES

A	ISSUED FOR CLIENT REVIEW	CC	NAF	MS	RO	19/11/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

[redacted]

CLIENT:
[redacted]

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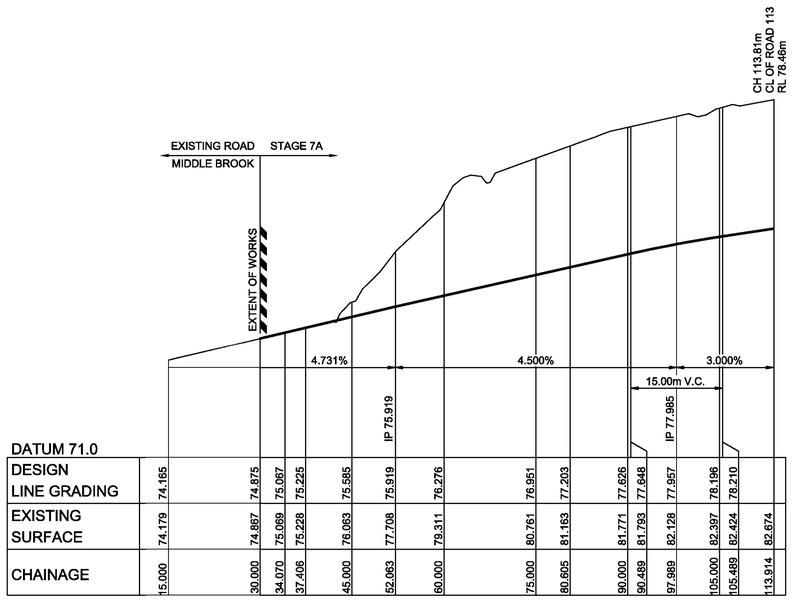
GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
ROAD LONGITUDINAL SECTIONS
SHEET 1

PROJECT No: 9784-13
SHEET No: DA020

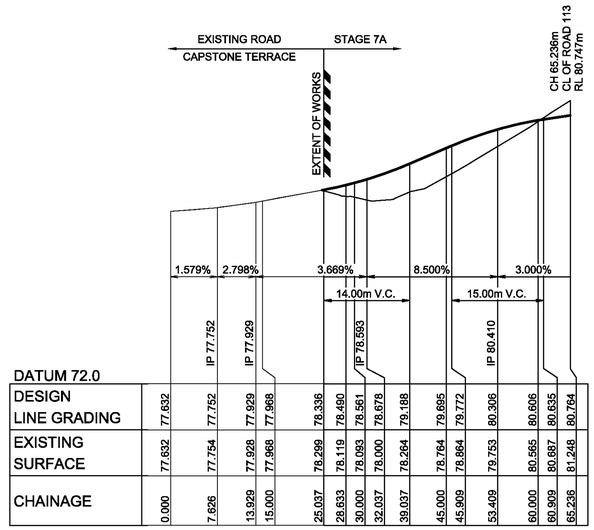
AZIMUTH: M.G.A.
DATUM: A.H.D.
ORIGIN:
PLAN No: 9784-13-DA020
A

Plotted: 19 November , 2020 5:35:37 PM File Name: J:\9784 - Glenmore Park Vianello Masterplan\01 - Civil Design\CD\DA\Stage 7, 8, & 9\9784-13-DA020.dwg



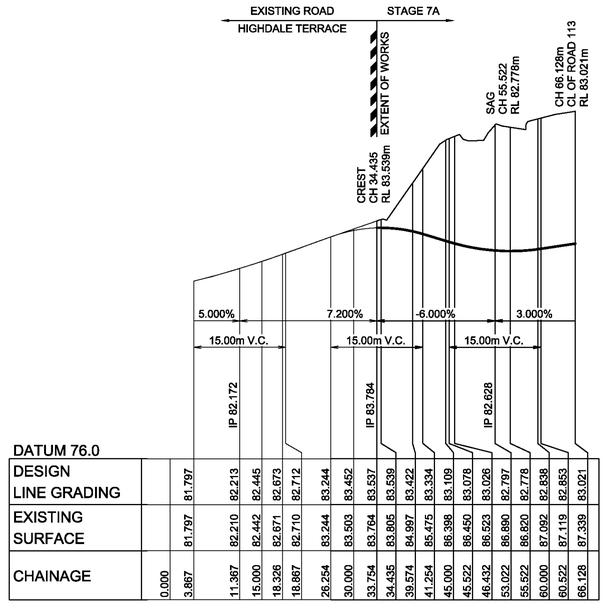
LONGITUDINAL SECTION ROAD 115

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



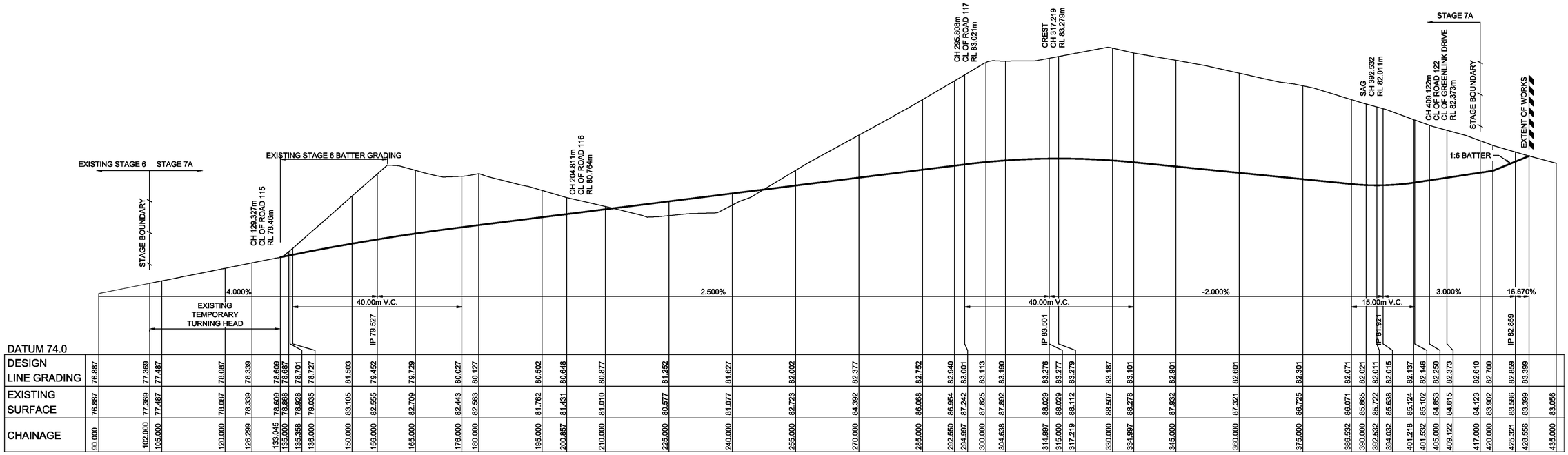
LONGITUDINAL SECTION ROAD 116

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



LONGITUDINAL SECTION ROAD 117

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



LONGITUDINAL SECTION ROAD 113

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

H 1:500 (AT A1) 10 0 10 20 30 40 50 METRES

V 1:100 (AT A1) 2 1 0 1 2 3 4 5 6 7 8 9 10 METRES

A	ISSUED FOR CLIENT REVIEW	CC	NAF	MS	RO	19/11/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

[redacted]

CLIENT: [redacted]

STATUS:
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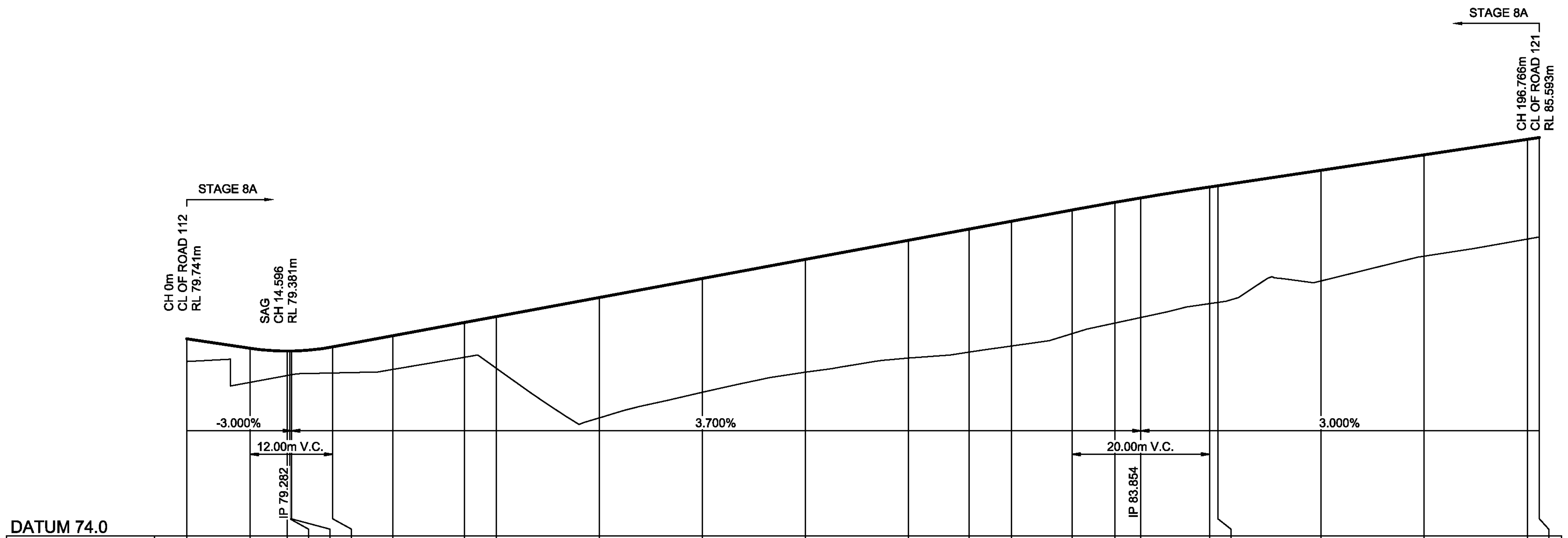
GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
ROAD LONGITUDINAL SECTIONS
SHEET 2

PROJECT No: 9784-13
SHEET No: DA021

AZIMUTH: M.G.A. | DATUM: A.H.D. | ORIGIN: | PLAN No: 9784-13-DA021 | A

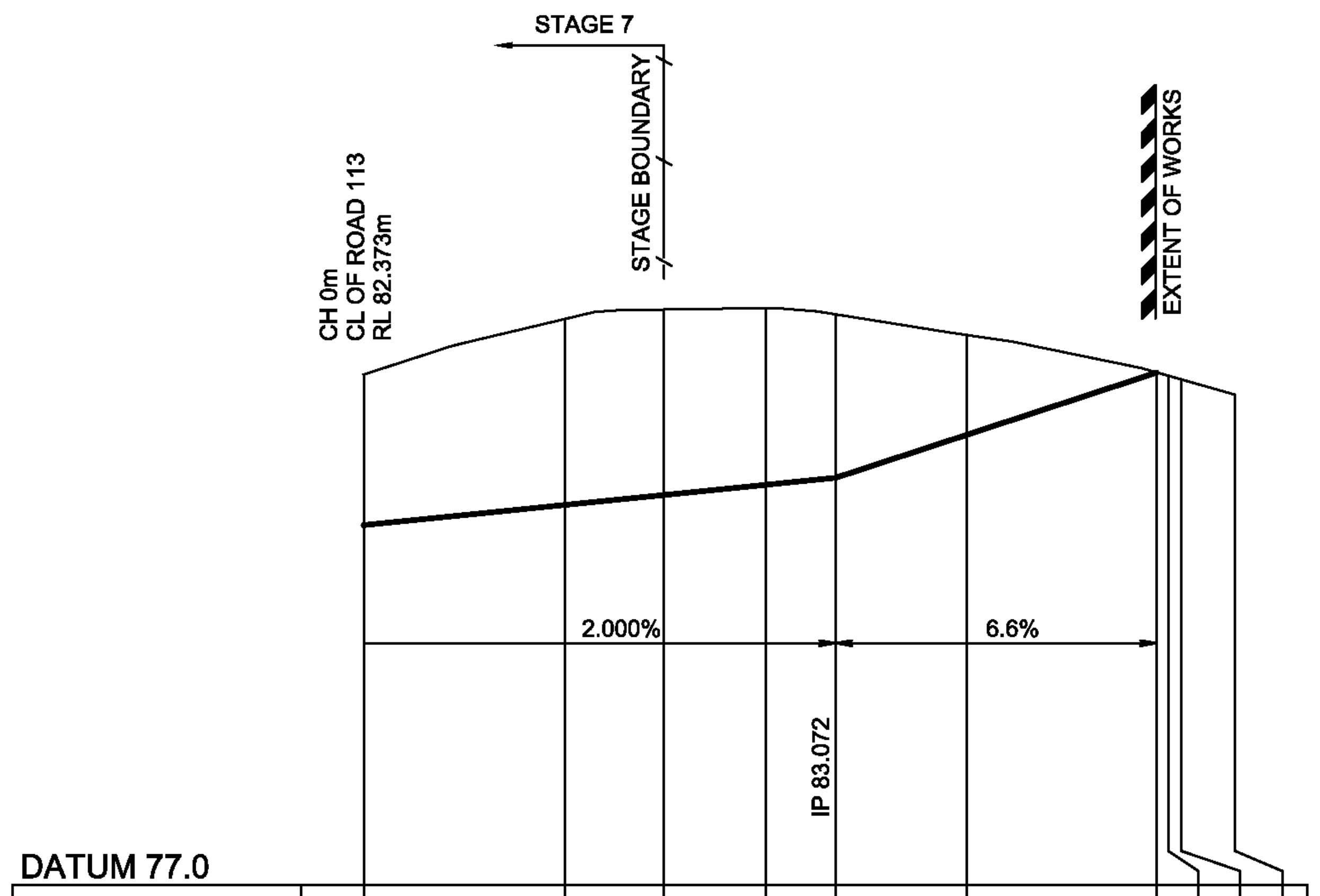
Plotted: 19 November , 2020 5:35:52 PM File Name: J:\9784 - Glenmore Park Vianello Masterplan\01 - Civil Design\CD\DA\Stage 7, 8, & 9\9784-13-DA021.dwg



DESIGN LINE GRADING	79.739	79.462	79.381	79.382	79.382	79.504	79.829	80.212	80.384	80.939	81.494	82.049
EXISTING SURFACE	79.075	78.472	78.671	78.685	78.692	78.742	78.847	79.198	78.882	77.440	78.186	78.767
CHAINAGE	0.000	9.223	14.596	15.000	15.223	21.223	30.000	40.358	45.000	60.000	75.000	90.000

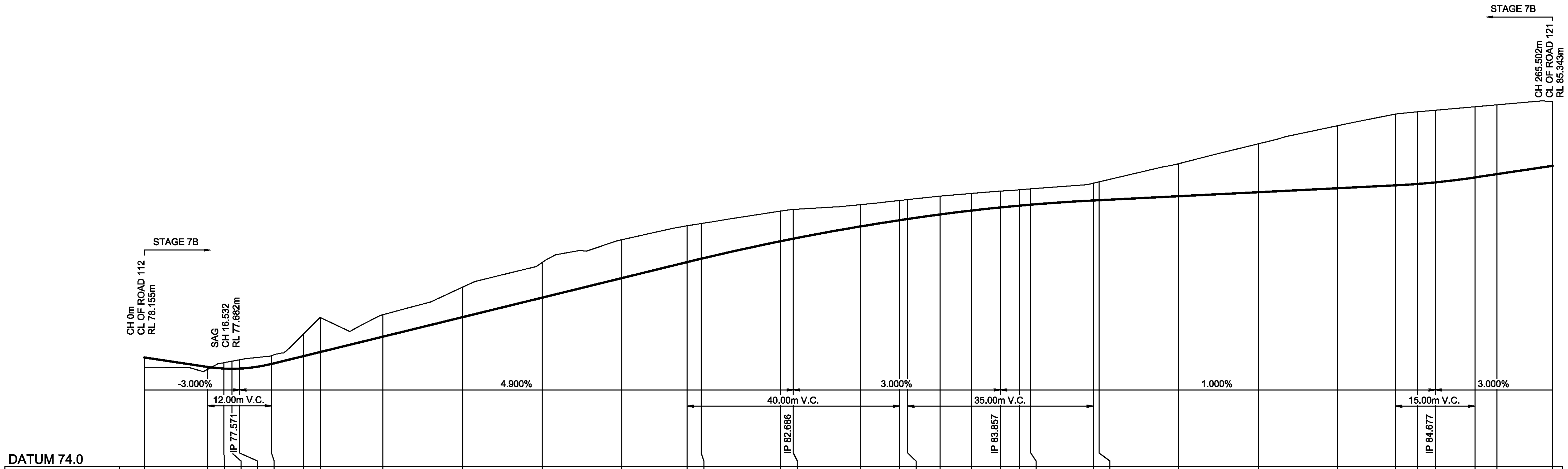
DESIGN LINE GRADING	82.604	82.931	83.159	83.484	83.707	83.836	84.154	84.190	84.640	85.090	85.540	85.593
EXISTING SURFACE	79.178	79.352	79.530	79.889	80.196	80.359	80.760	80.795	81.420	82.141	82.639	82.701
CHAINAGE	105.000	113.841	120.000	128.794	135.000	138.794	148.794	150.000	165.000	180.000	195.000	196.766

LONGITUDINAL SECTION ROAD 119
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



DESIGN LINE GRADING	82.368	82.668		82.968	83.072	83.716	84.646			
EXISTING SURFACE	84.615	85.443		85.607	85.515	85.204	84.646	84.597	84.541	84.313
CHAINAGE	0.000	15.000	22.390	30.000	35.202	45.000	59.144	60.000	60.993	65.000

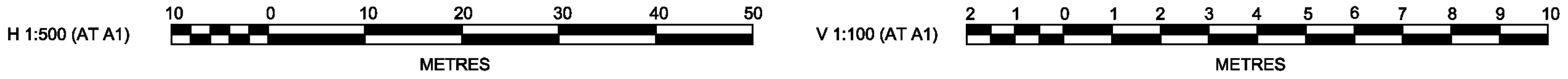
LONGITUDINAL SECTION ROAD 122
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



DESIGN LINE GRADING	78.110	77.751	77.690	77.682	77.689	77.865	78.160	78.317	78.895	79.630	80.365	81.100	81.706	81.833	82.496	82.591	83.052
EXISTING SURFACE	77.714	77.665	77.911	77.969	78.023	78.176	78.991	79.612	79.724	80.761	81.699	82.550	83.079	83.164	83.633	83.695	83.881
CHAINAGE	0.000	11.975	15.000	16.532	17.975	23.975	30.000	33.207	45.000	60.000	75.000	90.000	102.365	105.000	120.000	122.365	135.000

DESIGN LINE GRADING	83.286	83.332	83.504	83.653	83.769	83.838	83.874	84.032	84.043	84.193	84.343	84.493	84.602	84.654	84.714	84.902	85.025	85.340
EXISTING SURFACE	84.036	84.070	84.195	84.297	84.387	84.437	84.470	84.685	84.736	85.420	86.167	86.851	87.295	87.374	87.434	87.567	87.641	87.763
CHAINAGE	142.365	143.905	150.000	156.000	161.405	165.000	167.120	178.905	180.000	195.000	210.000	225.000	235.879	240.000	243.379	250.879	255.000	265.502

LONGITUDINAL SECTION ROAD 118
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



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	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
[redacted]

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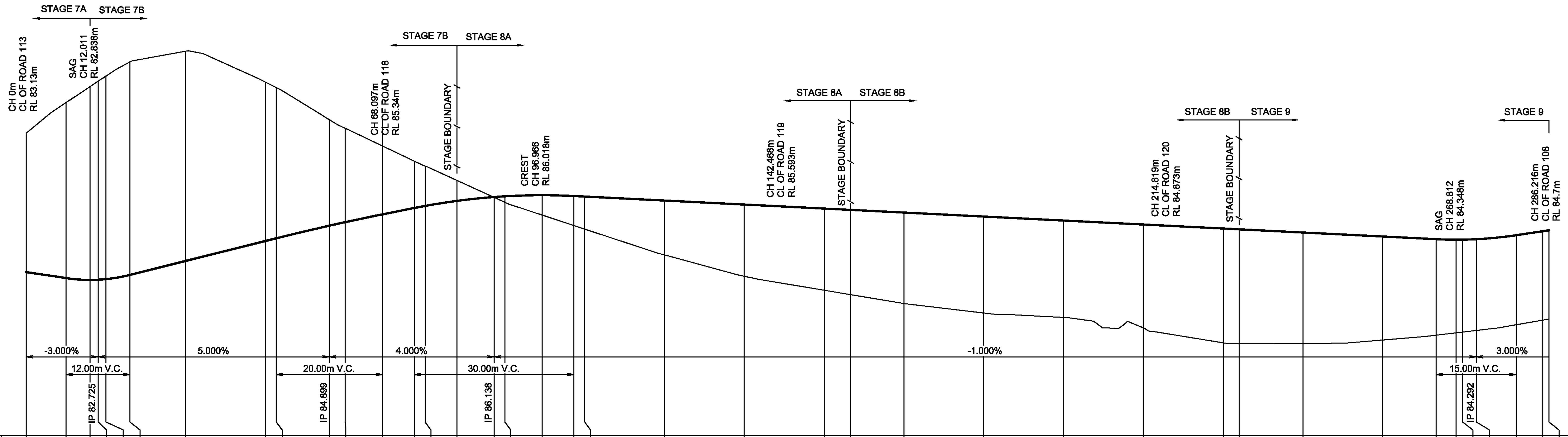
GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
ROAD LONGITUDINAL SECTIONS
SHEET 3

PROJECT No: 9784-13
SHEET No: DA022

AZIMUTH: M.G.A.
DATUM: A.H.D.
ORIGIN:
PLAN No: 9784-13-DA022
A

Plotted: 19 November , 2020 5:36:08 PM File Name: J:\9784 - Glenmore Park Vianello Masterplan\01 - Civil Design\CD\DA\Stage 7, 8, & 9\9784-13-DA022.dwg



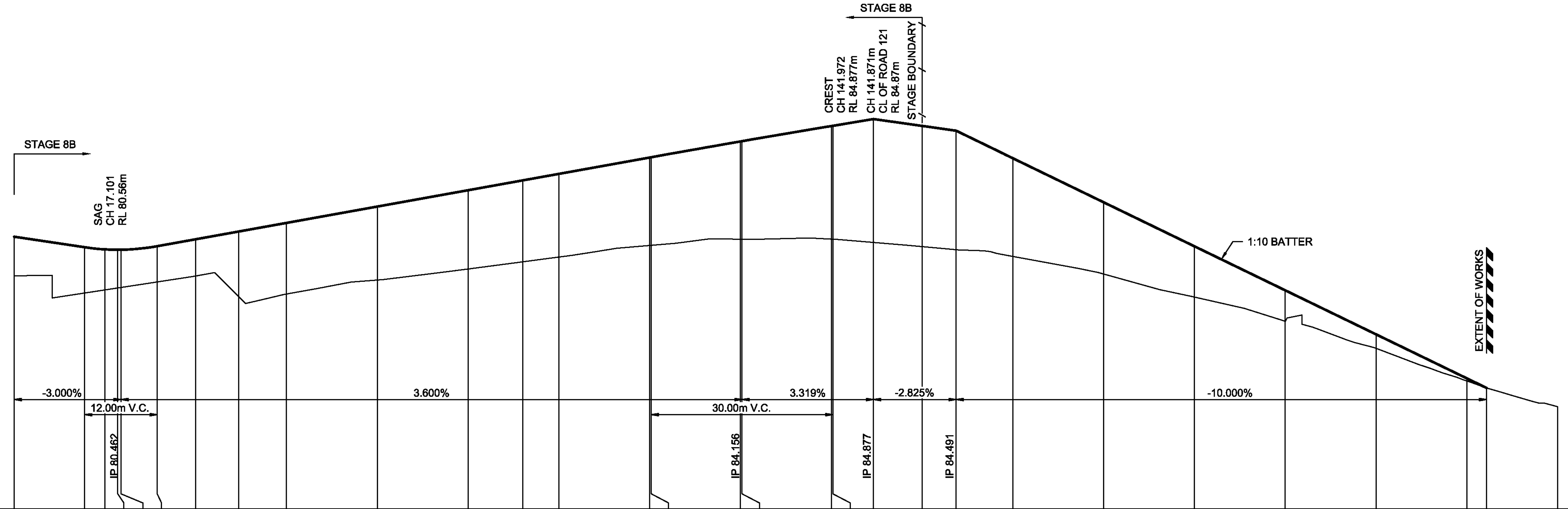
DATUM 77.0

DESIGN LINE GRADING	83.130	82.905	82.838	82.845	82.867	83.025	83.550	84.300	84.399	84.874	85.007	85.299	85.538	85.616		85.951	85.978	86.018	85.988	85.968
EXISTING SURFACE	88.346	89.499	90.096	90.295	90.493	91.024	91.429	90.263	90.066	88.857	88.533	87.868	87.298	87.114		85.938	85.752	85.276	84.880	84.746
CHAINAGE	0.000	7.511	12.011	13.511	15.000	19.511	30.000	45.000	46.997	56.997	60.000	66.997	72.966	75.000	81.000	87.966	90.000	96.966	102.966	105.000

DESIGN LINE GRADING	85.818	85.668	85.518		85.368	85.218	85.068	84.918	84.768		84.618	84.468	84.367	84.348	84.350	84.367	84.517	84.665	84.703
EXISTING SURFACE	83.776	82.974	82.450		81.948	81.592	81.430	81.035	80.475		80.451	80.579	80.762	80.850	80.878	80.938	81.153	81.323	81.366
CHAINAGE	120.000	135.000	150.000	155.000	165.000	180.000	195.000	210.000	225.000	228.000	240.000	255.000	265.062	268.812	270.000	272.562	280.062	285.000	286.241

LONGITUDINAL SECTION ROAD 121

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



DATUM 72.0

DESIGN LINE GRADING	80.991	80.642	80.572	80.560	80.561	80.678	80.907	81.163	81.447	81.987	82.527	82.852	83.067	83.607	83.616
EXISTING SURFACE	79.701	79.131	79.234	79.298	79.315	79.498	79.694	79.008	79.096	79.560	79.925	80.162	80.318	80.702	80.706
CHAINAGE	0.000	11.646	15.000	17.101	17.646	23.646	30.000	37.129	45.000	60.000	75.000	84.039	90.000	105.000	105.256

DESIGN LINE GRADING	84.137	84.145	84.645	84.654	84.877	84.650	84.491	83.582	82.128	80.674	79.219	77.765	76.311	75.995	
EXISTING SURFACE	80.907	80.907	80.912	80.909	80.802	80.665	80.563	80.338	79.758	78.997	78.199	77.304	76.228	75.995	75.379
CHAINAGE	120.000	120.256	135.000	135.256	141.972	150.000	155.625	165.000	180.000	195.000	210.000	225.000	240.000	243.259	255.000

LONGITUDINAL SECTION ROAD 120

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

H 1:500 (AT A1) 10 0 10 20 30 40 50
METRES

V 1:100 (AT A1) 2 1 0 1 2 3 4 5 6 7 8 9 10
METRES

A	ISSUED FOR CLIENT REVIEW	CC	NAF	MS	RO	19/11/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
[redacted]

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GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
ROAD LONGITUDINAL SECTIONS
SHEET 4

PROJECT No: 9784-13
SHEET No: DA023

AZIMUTH: M.G.A.
DATUM: A.H.D.
ORIGIN:
PLAN No: 9784-13-DA023
A

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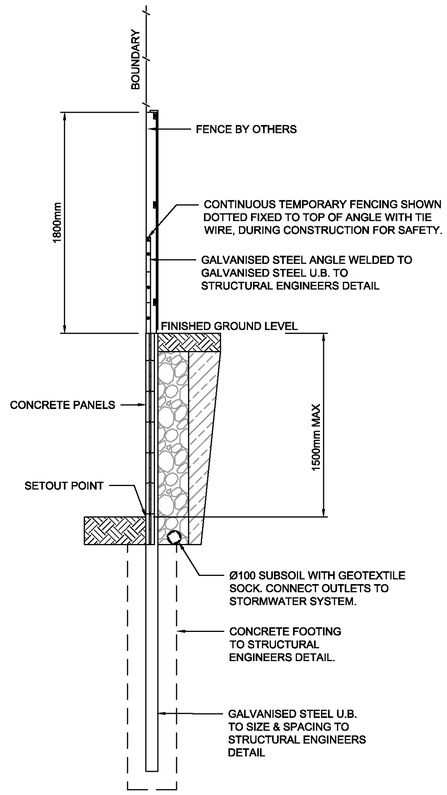

RETAINING WALL STANDARD DETAIL SECTION

SINGLE TIER CONCRETE I-BEAM

SCALE 1:25

Plotted: 19 November , 2020 5:36:39 PM File Name: J\9784 - Glenmore Park Vianello Masterplan\01 - Civil Design\CD\DA\Stage 7, 8, & 9\9784-13-DA024.dwg

A	ISSUED FOR CLIENT REVIEW	CC	NAF	MS	RO	19/11/20
	AMENDMENT	DES	DRN	CKD	APR	DATE

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GLENMORE PARK - PRECINCT G
STAGE 7A, 7B, 8A, 8B, AND 9
TYPICAL RETAINING WALL DETAILS

PROJECT No: 9784-13

SHEET No: DA024

AZIMUTH: M.G.A. | DATUM: A.H.D. | ORIGIN: | PLAN No: 9784-13-DA024 | A

HIGHLAND VIEWS STAGES 7-9
GLENMORE PARK NSW

PUBLIC DOMAIN PLAN
FOR DEVELOPMENT APPLICATION

LANDSCAPE DRAWING REGISTER

SHEET	SHEET NAME	REVISION
LD-DA000	COVER SHEET	A
LD-DA001	LANDSCAPE NOTES AND PLANT SCHEDULE	A
LD-DA100	PUBLIC DOMAIN PLAN - STAGE 7	A
LD-DA101	PUBLIC DOMAIN PLAN - STAGE 8	A
LD-DA102	PUBLIC DOMAIN PLAN - STAGE 9	A
LD-DA103	TERRACED LANDSCAPE PLAN	A
LD-DA500	LANDSCAPE DETAILS	A

[Status] DEVELOPMENT APPLICATION

[Nom. Architect] NICOLE WILSON RLA #12573

[File] 20150139-LD-CD100.DWG

[Print Date] 19 November 2020

History

[Rev#]	[Description]	[Date]
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scott carver [redacted]

[Project] HIGHLAND VIEWS STAGES 7-9

[Client] [redacted]

[Ref] 20150139

COVER SHEET

[Dwg No] LD-DA000 [Rev] A

GENERAL
ALL LANDSCAPE RELATED WORKS ARE TO BE PERFORMED BY A QUALIFIED LANDSCAPE CONTACTOR AND/OR TRADESPERSON.

SERVICES IDENTIFICATION
THE CONTRACTOR SHALL VERIFY THE POSITION OF ALL SERVICES PRIOR TO THE COMMENCEMENT OF WORKS AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING SERVICES DURING IMPLEMENTATION WORKS.

SITE ESTABLISHMENT
THE CONTRACTOR SHALL ESTABLISH SITE ACCESS AND COMPOUND IN POSITION AGREED WITH THE SUPERINTENDENT AND OR SUBJECT TO COUNCIL APPROVAL. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR PROTECTING THE SITE WORKS DURING CONSTRUCTION AND ESTABLISHMENT INCLUDING VEGETATION, PEDESTRIAN AND VEHICULAR MANAGEMENT. IMPLEMENT EROSION CONTROL AND SITE MANAGEMENT PRACTICES TO SECURE THE SITE AND TO COMPLY WITH ALL STATUTORY REQUIREMENTS.

EARTHWORKS & DRAINAGE
EARTHWORKS
THE LANDSCAPE CONTRACTOR SHALL ALLOW FOR MINOR EARTH TRIMMING AND PROFILING TO PREPARE LANDSCAPE AREAS TO ACCEPT THE NOMINATED TREATMENT. PROTECT EXPOSED EARTHWORKS WITH TEMPORARY EROSION MEASURES AND COORDINATE THE ON-SITE DISPOSAL OF EXCESS SPOIL WITH THE SUPERINTENDENT.
DRAINAGE
ALL LANDSCAPE AREAS SHALL BE FREE DRAINING WITH POSITIVE DRAINAGE TO STORMWATER OUTLETS OR NATURAL DRAINAGE SYSTEMS.

SOFT LANDSCAPE WORKS
SOIL MIX:
IMPORTED SOIL MIX:
ALL PLANTER AREAS SHALL HAVE A MINIMUM SOIL DEPTH OF 300MM AND 100MM TO TURF | GRASS AREAS WITH LANDSCAPE QUALITY SOIL THAT CONFORMS TO AS 4419 SOILS FOR LANDSCAPE AND GARDENS AND AS 4454A COMPOST,

SOIL CONDITIONERS AND MULCHES.
A TYPICAL IMPORTED TOPSOIL MIX WOULD BE EQUAL TO SOGM 'ORGANIC GARDEN MIX' EQUIVALENT FROM AUSTRALIAN NATIVE LANDSCAPES. THE CONTRACTOR MUST SUBMIT 1KG SAMPLES OF THE TOPSOIL AS THE 'APPROVED' SAMPLE WITH TEST DATA CONFIRMING COMPLIANCE WITH THE AUSTRALIAN STANDARD.

ALL NEW PLANTINGS TO BE INSTALLED WITH TERRACOTTEM SOIL CONDITIONER (AS PER MANUFACTURER'S SPECIFICATION). SOIL CONDITIONER AND MULCH MUST BE FREE OF DELETERIOUS EXTRANEOUS MATTER SUCH AS SOIL, WEEDS, STICKS AND STONES. RECYCLED MULCH SHALL BE WEATHERED FOR A MINIMUM OF 12 WEEKS PRIOR TO DELIVERY AND SPREADING ONSITE, AND CONTAIN NO LIVE FUNGAL PROPERTIES.

AN ALTERNATIVE MIX IS 40% SOIL AND 60% GREENLIFE MULCH AND COMPOST MIX (AVAILABLE FROM AUSTRALIAN NATIVE LANDSCAPES). THE CONTRACTOR MUST SUBMIT 1KG SAMPLES OF THE TOPSOIL AS THE 'APPROVED' SAMPLE WITH TEST DATA CONFIRMING COMPLIANCE WITH THE AUSTRALIAN STANDARD.

TURF UNDERLAY/TOPSOIL
TURF UNDERLAY OR TOPSOIL IS REQUIRED UNDER TURF AREAS TO MINIMUM 150MM THICK AND WILL CONFORM TO TE MINIMUM AS 4454 REQUIREMENTS FOR TURF UNDERLAY OR TOPSOIL IS TO TURF SUPPLIER'S RECOMMENDATION AS EACH SPECIES WILL REQUIRE SUITABLE TURF UNDERLAY OR TOPSOIL MATERIAL TO GROW IN. THE SOIL SHALL BE EITHER IMPORTED OR AMELIORATED EXISTING SITE TOPSOIL, DEPENDING ON WHAT SOIL TYPE IS MOST SUITABLE FOR THE CHOSEN TURF SPECIES.

FERTILISER: APPLY SLOW RELEASE FERTILISER AT THE TIME OF PLANTING TO PLANTER BED AREAS AND ADVANCED TREE POSITIONS STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND WITH REGARD TO SEASON, SOIL MIX, WATERING REGIMES AND SUB GRADE CONDITIONS.

PLANTER AREAS: SHALL BE CONSTRUCTED TO THE EXTENT NOMINATED ON THE PLAN INCLUDING 150MM CULTIVATION, IMPORTED OR IMPROVED TOP SOILS TO 300MM DEPTH, 75MM DEPTH MULCH AND STAKING OF PLANT MATERIALS EXCEEDING 45L CONTAINER SIZE. PLANTER AREAS SHOULD BE MAINTAINED AT A MAXIMUM 1:3 GRADE.

PLANT MATERIALS:
REFER TO THE PLANT SCHEDULE. THE CONTRACTOR SHALL ENSURE THAT ALL PLANT MATERIALS ARE SECURED IMMEDIATELY UPON AWARD OF CONTRACT. FAILURE TO DO SO WILL NOT GIVE RISE TO SUBSTITUTIONS OR EXTENSIONS OF TIME. ALL STOCK SHALL BE GROWN IN OPEN AREAS WHICH ARE EXPOSED TO THE SUN AND WIND TO PROMOTE VIGOROUS PLANT GROWTH AND TO HARDEN PLANTS OFF. ALL PLANT MATERIAL SHALL BE PEST AND DISEASE FREE. ALL PLANT MATERIAL SHALL NOT BE ROOT BOUND OR DAMAGED. PLANT DENSITIES SHALL REFLECT ACCEPTED INDUSTRY STANDARDS AND COUNCILS GUIDELINES FOR LANDSCAPE WORKS AND BE SOURCED FROM AN ACCREDITED NURSERY.

ADVANCED TREES
PLANT STOCK SHALL HAVE A WELL DEVELOPED STRAIGHT STEM WITH TRI-BRANCHING STRUCTURE AND HEALTHY CANOPY TYPICAL TO THE SPECIES AND TO THE MINIMUM SIZES SCHEDULED.

EXCAVATE A HOLE A MINIMUM 500MM WIDER THAN THE ROOT BALL AND DEEP ENOUGH TO ACCEPT A MINIMUM 200MM OF TOPSOIL BELOW. BREAK UP THE BASE OF THE HOLE TO A FURTHER DEPTH OF 200MM, AND LOOSEN COMPACTED SIDES OF THE HOLE AS NECESSARY TO PREVENT CONFINEMENT OF ROOT GROWTH TO THE HOLE. LOOSEN SIDES OF ROOT BALL TO PROMOTE GROWTH. BACKFILL WITH NOMINATED SOIL MIX, LIGHTLY TAMP AND WATER TO ELIMINATE AIR POCKETS. ENSURE POSITIVE DRAINAGE TO ALL TREE POSITIONS.

SUPPLY AND INSTALL ROOT BARRIER, SUB TERRAIN GUYING, STAKING AND TREE GUARDS AS DETAILED ON THE PLANS. NOTE THAT TREE PLANTING WITHIN PARKING BAYS WILL BE IN "ARBORGREEN" STRATA CELL.

STAKES AND TIES
PROVIDE HARDWOOD STAKES THAT ARE STRAIGHT, FREE FROM KNOTS OR TWISTS, POINTED AT ONE END. DRIVE STAKES INTO THE GROUND AT LEAST ONE THIRD OF THEIR LENGTH, AVOIDING DAMAGE TO THE ROOT SYSTEM.

STAKE SIZES (ADVANCED TREES): MINIMUM 2 NO. X 50 X 50 X 2400MM HARDWOOD STAKES PER TREE IN PARALLEL FORMAT OR TRI-STAKING AS REQUIRED TO SUPPORT THE TREE. STAKING IS TO REFLECT PREVAILING SASONAL WIND DIRECTIONS.

TIES: PROVIDE TIES FIXED SECURELY TO THE STAKES, AT 2 / 3 THE HEIGHT OF THE MAIN STEM, OTHERS AS NECESSARY TO STABILISE THE TREE WITH 50MM HESSIAN WEBBING INSTALLED AIN A FIGURE OF EIGHT PATTERN AND STAPLED TO THE STAKE AS DETAILED.

MULCH

SUPPLY AND PLACE SPECIFIED MULCH TO PLANTER AREAS AND TREE POSITIONS TO A MINIMUM DEPTH OF 75MM.

CRUSHED RECYCLED GRAVEL: APPLY TO ALL PLANTER AREAS | TREE SURROUNDS TO THE EXTENT NOMINATED ON THE PLANS OR AS DETAILED. MULCH IS TO BE FREE OF DELETERIOUS AND EXTRANEOUS MATTER SUCH AS SOIL, WEEDS AND STICKS. SPREAD MULCH EVENLY TO 75MM DEPTH OR AS OTHERWISE NOTED ON THE DRAWINGS. FINISH 25MM BELOW SURROUNDING FINISHED LEVELS OR AS DETAILED. PLACE MULCH CLEAR OF PLANT STEMS, AND RAKE TO AN EVEN SURFACE FLUSH WITH THE SURROUNDING FINISHED LEVELS.

MAINTENANCE PERIOD: MAINTAIN THE WORKS FOR A PERIOD OF 26 WEEKS FOLLOWING THE GRANTING OF LANDSCAPE PRACTICAL COMPLETION. THROUGHOUT THE MAINTENANCE PERIOD CARRY OUT RECURRENT WORKS OF A MAINTENANCE NATURE INCLUDING BUT NOT LIMITED TO: WATERING, MAINTAINING MULCH LEVELS, FERTILISING, PEST & DISEASE CONTROL, PRUNING AND FAILED PLANT MATERIAL REPLACEMENT.

REFERENCE DOCUMENTS

AUSTRALIAN STANDARDS
AS 1289 D1.1 SOIL CHEMICAL TEST–DETERMINATION OF THE ORGANIC MATTER CONTENT OF A SOIL
AS 4419 SOILS FOR LANDSCAPING AND GARDEN USE

ESTABLISHMENT
WATER TO MAINTAIN HEALTHY PLANT MATERIAL IN VIGOROUS GROWTH AND WITHOUT SYMPTOMS OF WATER STRESS.

WATER QUALITY
PH BETWEEN 5.5 AND 7.5.
TOTAL SOLUBLE SALTS LESS THAN 1000 MG/LITRE.
NO SUBSTANCES THAT WOULD BE TOXIC TO PLANT GROWTH.

SHORT-TERM WATERING PROGRAM
ALL NEW PLANTING SHOULD BE MANUALLY WATERED ON INSTALLATION, SOAKING TO A DEPTH OF 150MM DAILY FOR THE FIRST 2 WEEKS AND THEN WEEKLY FOR THE FOLLOWING 4 WEEKS. CONTRACTOR TO PROVIDE A WATERING / MAINTENANCE REPORT/ SCHEDULE PRIOR TO PRACTICAL COMPLETION OF PLANTING WORKS AND APPROVAL.
WATER RESTRICTIONS
CO-ORDINATE THE WATER SUPPLY AND CONFIRM THE WATERING REGIME AGAINST STATE AND TERRITORY LEGISLATION AND RESTRICTIONS AT THE TIME.

LANDSCAPE PRACTICAL COMPLETION
CARRY OUT RECURRENT MAINTENANCE WORKS INCLUDING, BUT NOT LIMITED TO: WATERING, MAINTAINING MULCH LEVELS, FERTILISING, PEST & DISEASE CONTROL, PRUNING AND FAILED PLANT MATERIAL REPLACEMENT. LANDSCAPE MAINTENANCE WORKS TO BE CARRIED OUT BY A SUITABLY QUALIFIED LANDSCAPE MAINTENANCE CONTRACTOR, COMMISSIONED BY OTHERS.

REFER DA100-102 FOR ALL PROPOSED STREET TREE PLANTING LOCATIONS

PLANTING SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME	INSTALLATION SIZE	INSTALLATION HEIGHT	PLANTING RATE	QUANTITY	MATURE HEIGHT
COR cit	Corymbia citriodora	Lemon Scented Gum	100L	2.5m	As Shown	14	30m
COR mac	Corymbia mactulata	Spotted Gum	100L	2.5m	As Shown	20	30m
CUP ana	Cupaniopsis anacardiodes	Tuckeroo	100L	2.5m	As Shown	14	15m
EUC cre	Eucalyptus crebra	Narrow-leaved Ironbark	100L	2.5m	As Shown	22	25m
FRA gri	Fraxinus griffithii	Evergreen Ash	100L	2.5m	As Shown	10	10m
LOP con	Lophostmon confertus	Brush Box	100L	2.5m	As Shown	38	20m
PIS chi	Pistacia chinensis	Chinese Pistache	100L	2.5m	As Shown	9	12m
TRI lau	Tristaniopsis laurina	Watergum	100L	2.5m	As Shown	35	10m

[Status] DEVELOPMENT APPLICATION

[Nom. Architect] NICOLE WILSON RLA #12573

[File] 20150139-LD-CD100.DWG

[Print Date] 19 November 2020

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[Rev#]	[Description]	[Date]
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scott_carver [redacted]

[Project] HIGHLAND VIEWS STAGES 7-9

[Client] [redacted]

LANDSCAPE NOTES AND PLANT SCHEDULE

[Ref] 20150139 [Dwg No] LD-DA001 [Rev] A

[Status] DEVELOPMENT APPLICATION

[Nom. Architect] NICOLE WILSON RLA #12573

[File] 20150139-LD-CD100.DWG

[Print Date] 19 November 2020

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[Rev#]	[Description]	[Date]
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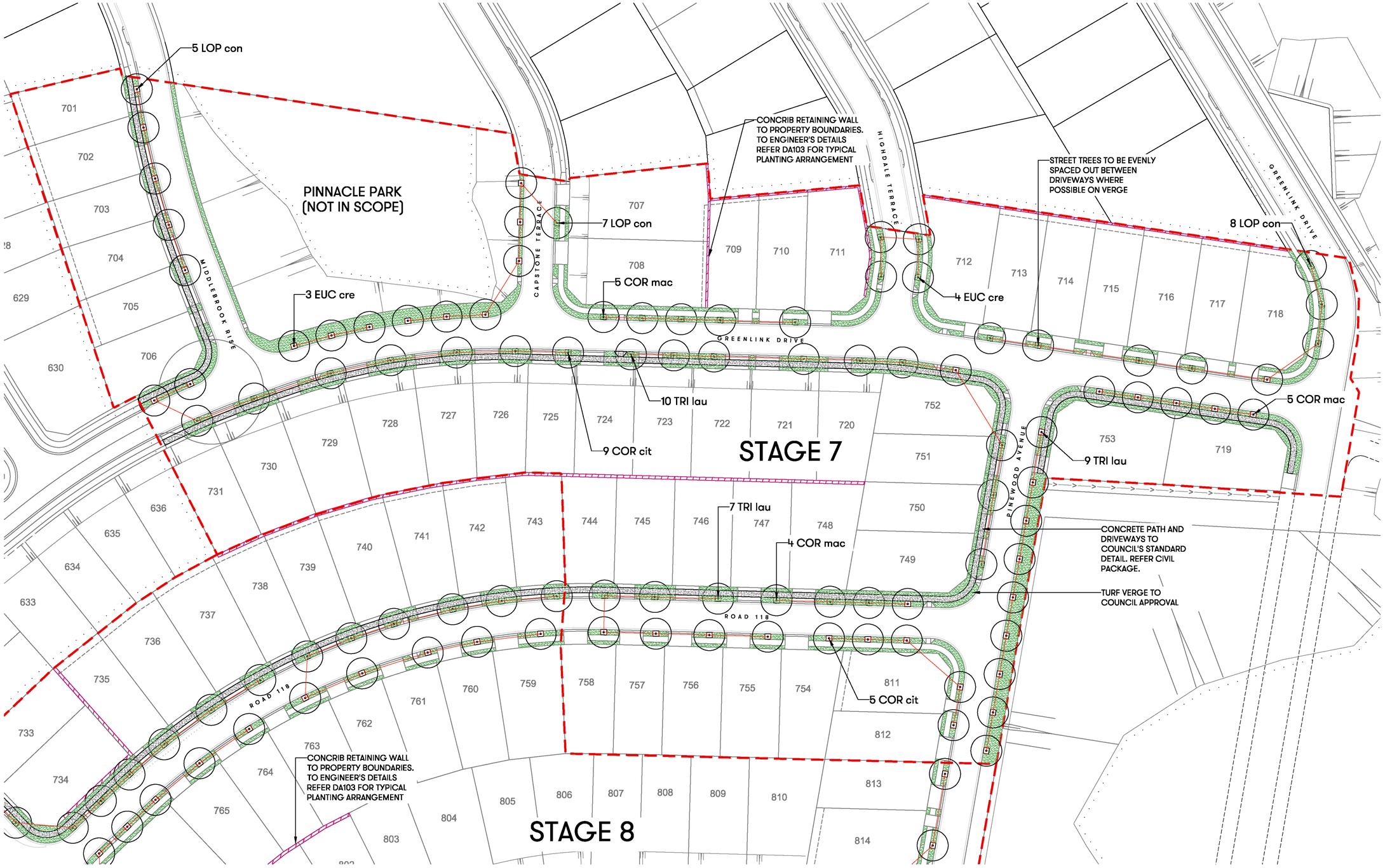

LEGEND

- RIPARIAN CORRIDOR BOUNDARY
- STAGING BOUNDARY
- PROPOSED STREET TREES WITH TIMBER EDGE - REFER PLANT SCHEDULE DA001
- NEW TURF

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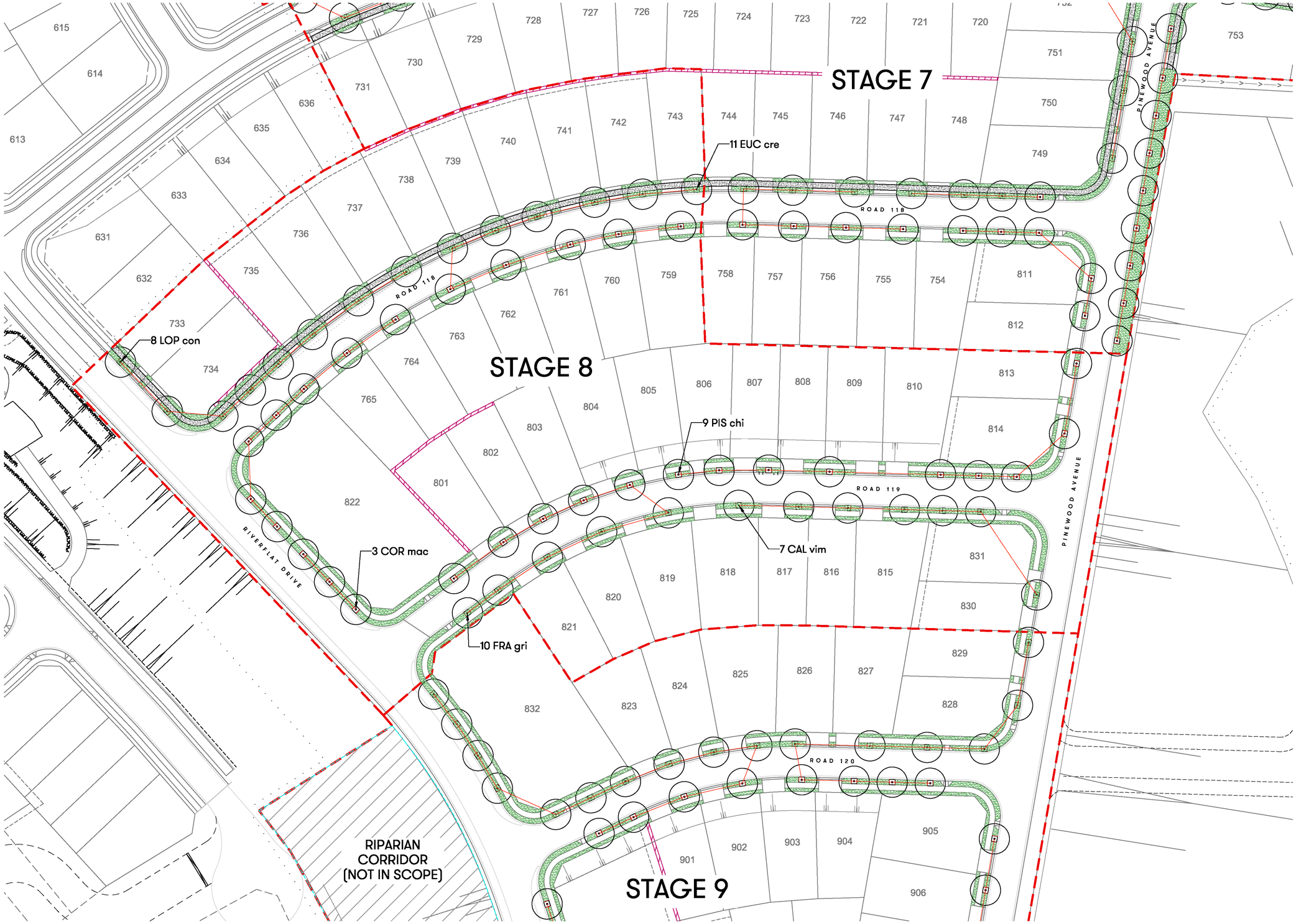
[Project] HIGHLAND VIEWS STAGES 7-9

[Client] [redacted]

[Scale] 1 : 500 @ A1

STAGE 7 PUBLIC DOMAIN PLAN

[Ref] 20150139 [Dwg No] LD-DA100 [Rev] A



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[File] 20150139-LD-CD100.DWG

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[Rev#]	[Description]	[Date]
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- PROPOSED STREET TREES WITH TIMBER EDGE - REFER PLANT SCHEDULE DA001
- NEW TURF

GENERAL NOTES:

1. DO NOT SCALE FROM DRAWINGS. WRITTEN DIMENSIONS GOVERN. IF IN DOUBT OBTAIN WRITTEN ADVICE FROM SCOTT CARVER OR WHERE APPLICABLE VIA THE PRINCIPAL'S REPRESENTATIVE.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. ALL DIMENSIONS ARE MINIMUM SETTING OUT REQUIREMENTS.
3. THIS DRAWING IS AN UNCONTROLLED COPY UNLESS STAMPED WITH STATUS
4. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND LEVELS ON SITE AS THIS IS NOT A SHOP DRAWING
5. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE TOTAL CONTRACT PACKAGE INCLUDING DRAWINGS AND SPECIFICATIONS OF ALL CONSULTANTS
6. THIS DRAWINGS ARE BASED ON SURVEY INFORMATION. SCOTT CARVER DO NOT WARRANT THE ACCURACY OF SURVEY INFORMATION

NOT FOR CONSTRUCTION

scott carver [redacted]

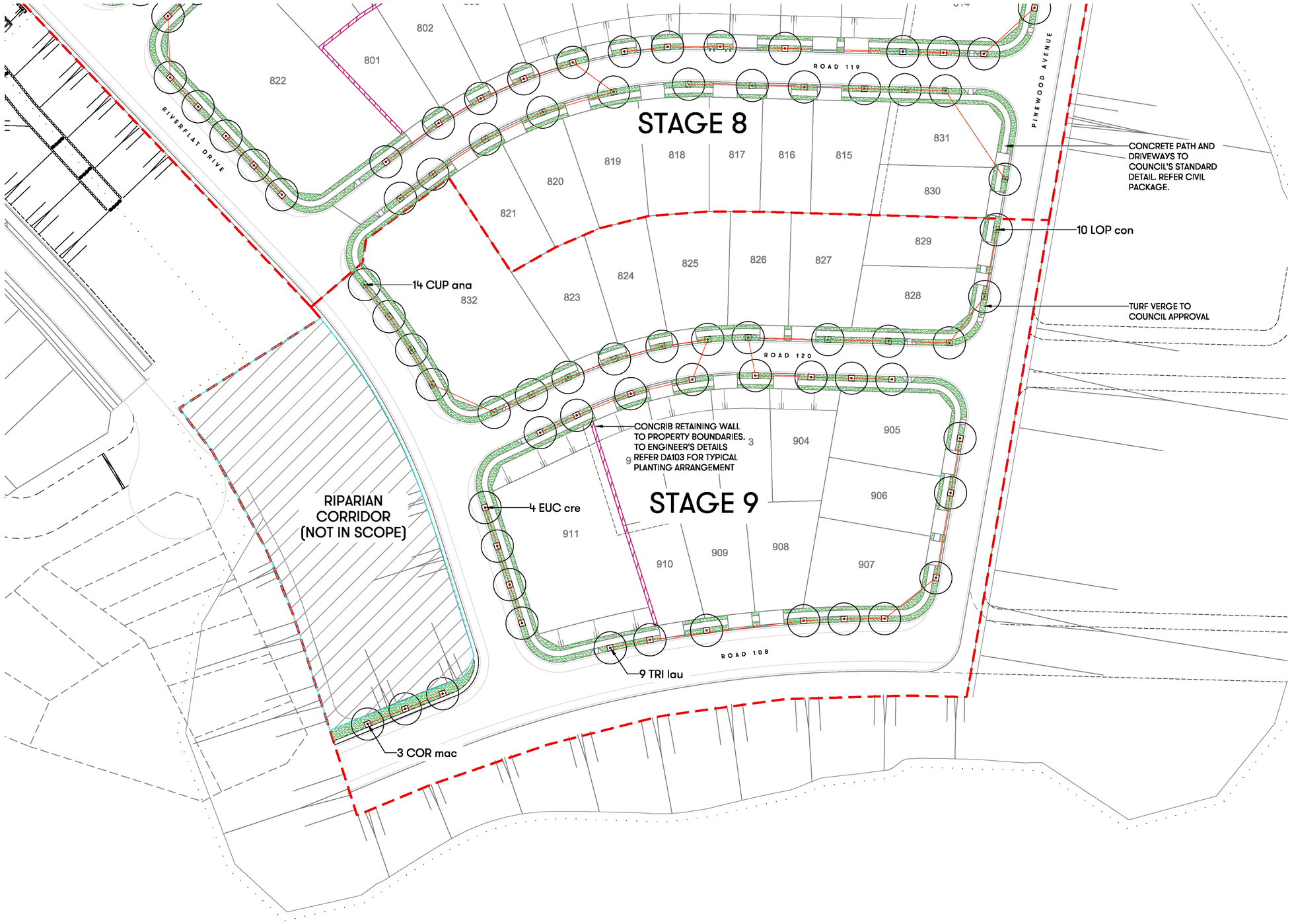
[Project] HIGHLAND VIEWS STAGES 7-9

[Client] [redacted]

[Scale] 1 : 500 @ A1

STAGE 8 PUBLIC DOMAIN PLAN

[Ref] 20150139 [Dwg No] LD-DA101 [Rev] A



[Status] FOR DA

[Nom. Architect] NICOLE WILSON RLA #12573

[File] 20150139-LD-CD100.DWG

[Print Date] 3 OCTOBER 2020

History

[Rev#]	[Description]	[Date]
A	FOR DA	03/11/2020

LEGEND

- RIPARIAN CORRIDOR BOUNDARY
- STAGING BOUNDARY
- PROPOSED STREET TREES WITH TIMBER EDGE - REFER PLANT SCHEDULE DA001
- NEW TURF

GENERAL NOTES:

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NOT FOR CONSTRUCTION

scott carver [redacted]

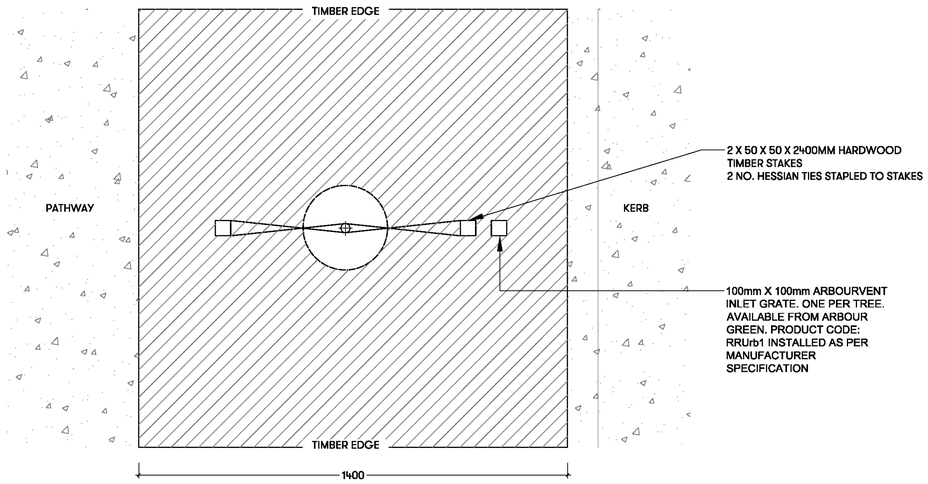
[Project] HIGHLAND VIEWS STAGES 7-9

[Client] [redacted]

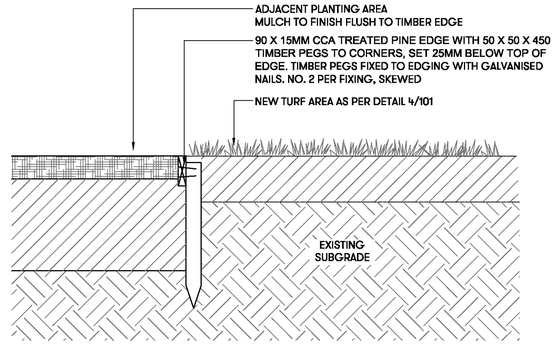
[Scale] 1 : 500 @ A1

STAGE 9 PUBLIC DOMAIN PLAN

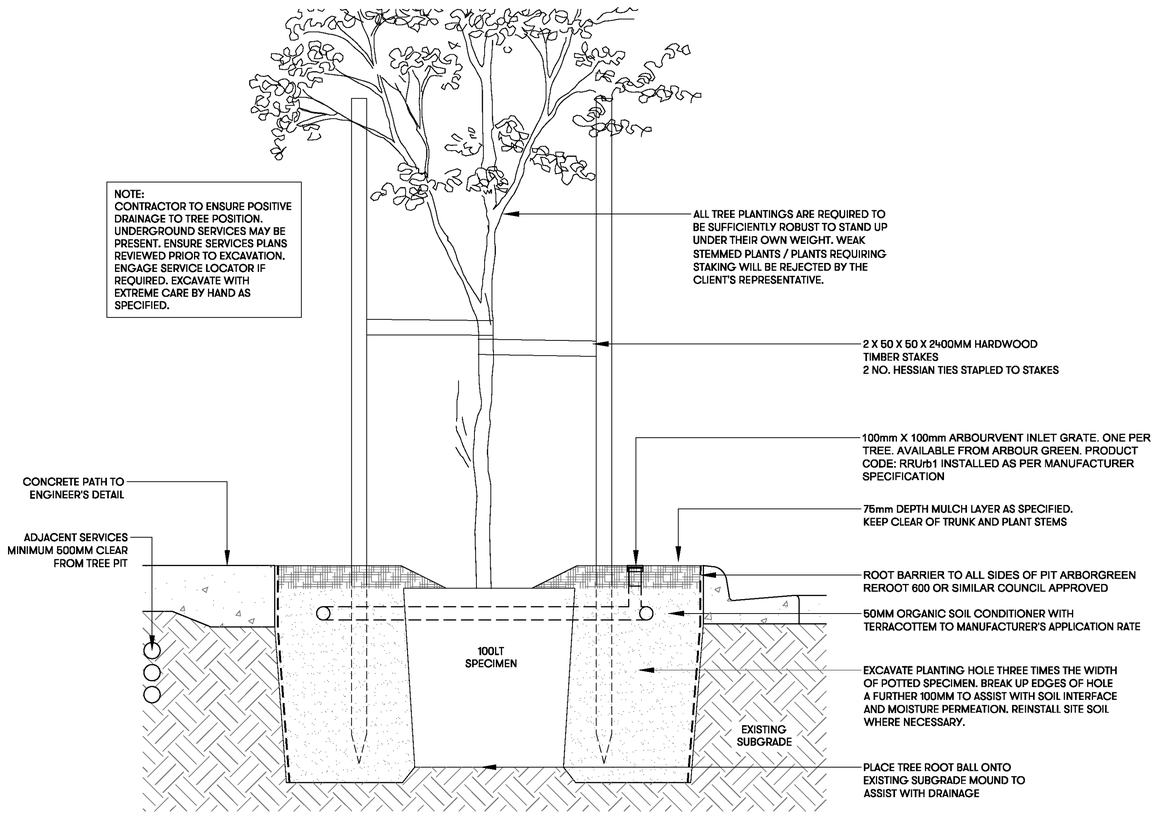
[Ref] 20150139 [Dwg No] LD-DA102 [Rev] A



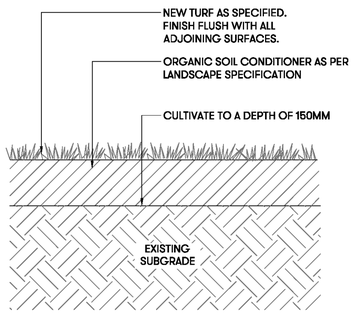
1 TYPICAL STREET TREE PLANTING - PLAN
1:10



3 TIMBER EDGE
1:10



2 TYPICAL STREET TREE PLANTING - SECTION
1:10



4 NEW TURF AREA
1:10

[Status] DEVELOPMENT APPLICATION

[Nom. Architect] NICOLE WILSON RLA #12573

[File] 20150139-LD-CD100.DWG

[Print Date] 19 November 2020

History

[Rev#]	[Description]	[Date]
A	FOR APPROVAL	19/11/20

GENERAL NOTES:
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scott carver [redacted]

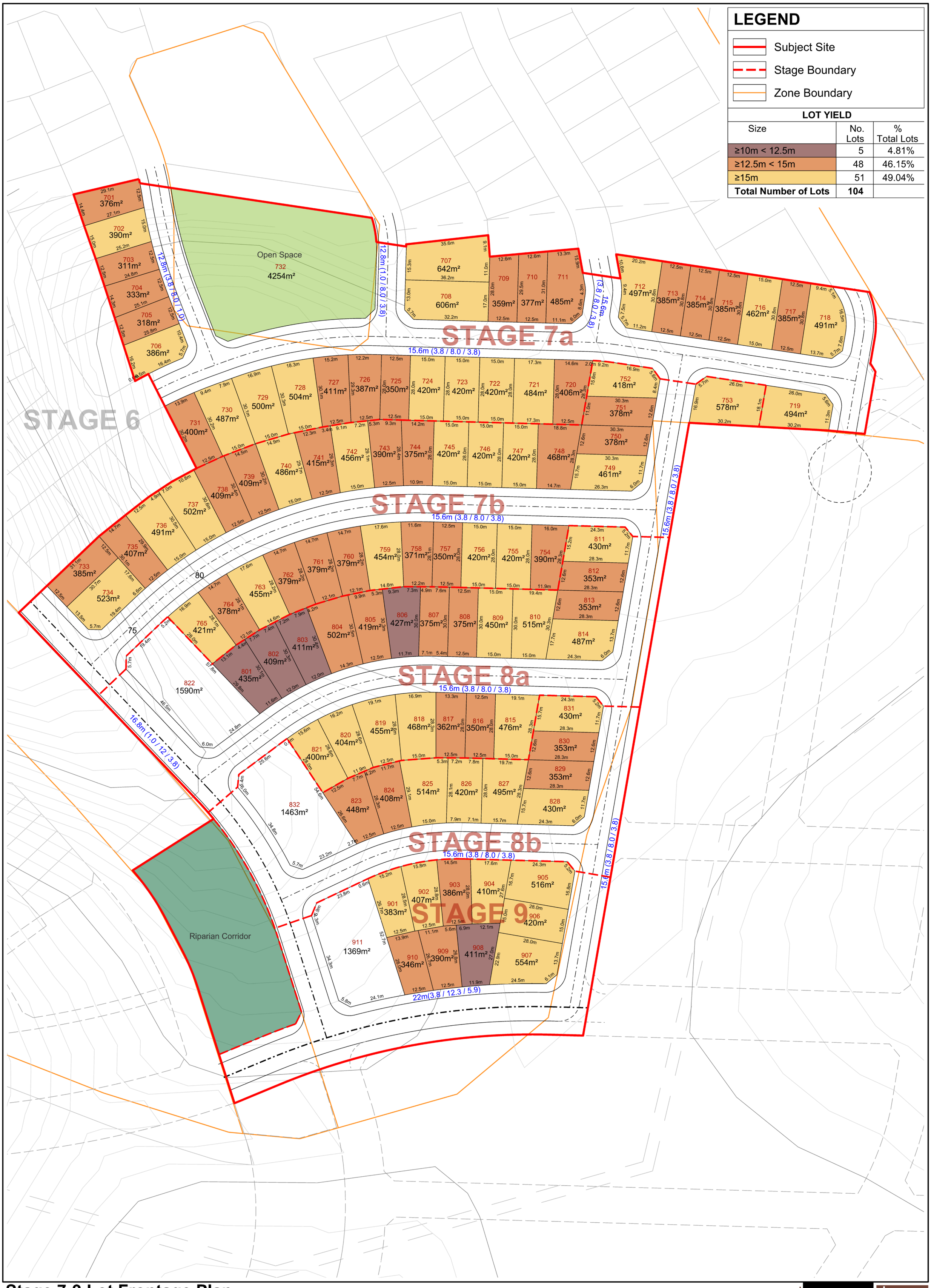
[Project] HIGHLAND VIEWS STAGES 7-9

[Client] [redacted]

[Scale] 1:10@ A1

LANDSCAPE DETAILS

[Ref] 20150139 [Dwg No] LD-DA500 [Rev] A



LOT YIELD

Size	No. Lots	% Total Lots
≥10m < 12.5m	5	4.81%
≥12.5m < 15m	48	46.15%
≥15m	51	49.04%
Total Number of Lots	**104**	

Stage 7-9 Lot Frontage Plan

HIGHLAND VIEWS

NORTH

5 0 10 20 30 40 50 60 70 metres

Ref: CCLGP-3-009-2 **Date:** 12/11/2020 **Revision:** D **Scale:** 1:1,000@A2

Note: All areas and dimensions subject to detailed survey

design+ PLANNING

HIGHLAND VIEWS
GREEN CORRIDOR REHABILITATION PLANS

REV 1 **20/11/2020** **FOR DISCUSSION**

CLIENT:

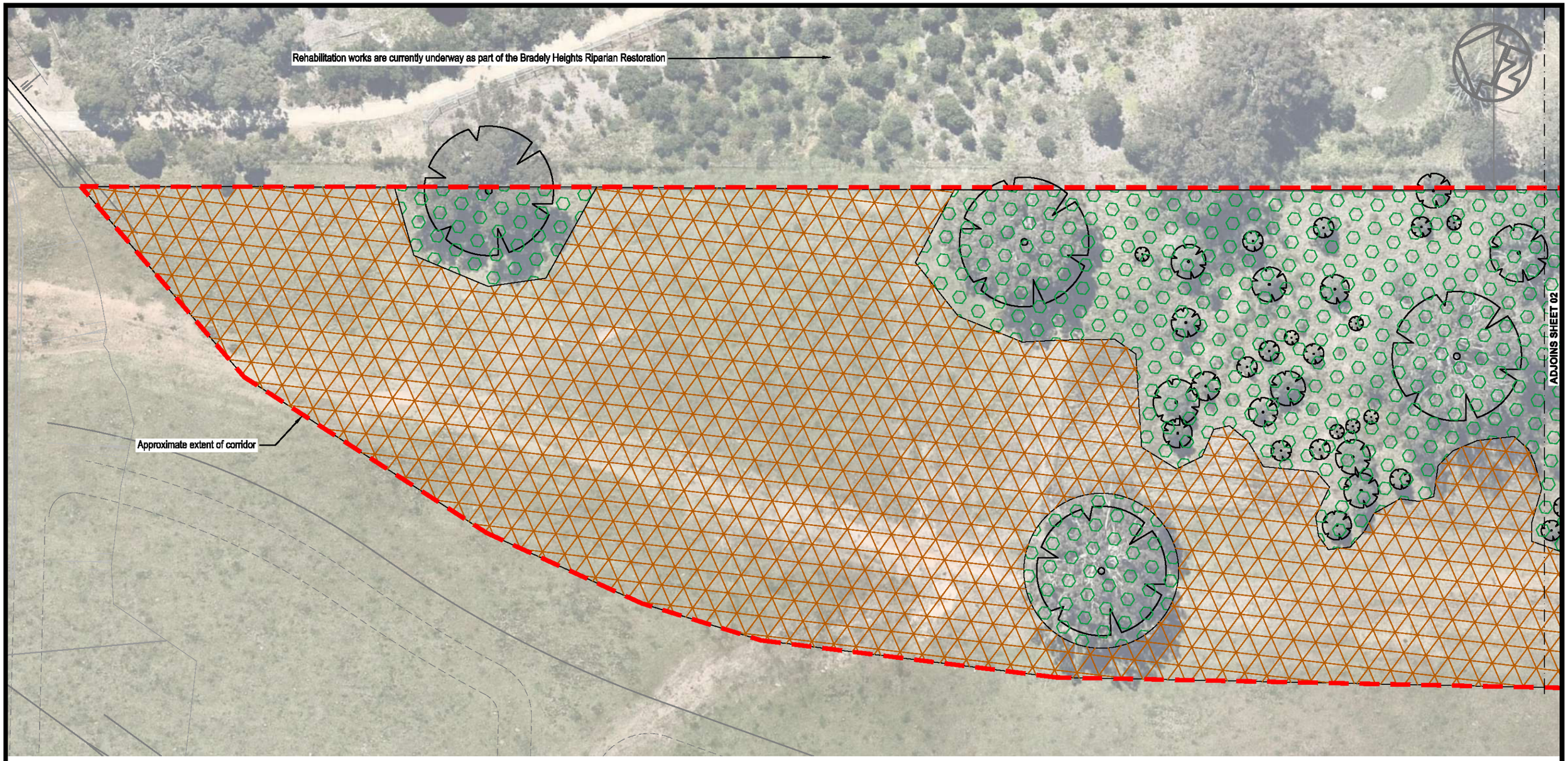
CCL DEVELOPMENT PTY LTD
MANAGEMENT AND DEVELOPMENT

DRAWING LIST

AWC 3 - 17857_G_00 - LOCALITY PLAN & DRAWING INDEX
AWC 3 -17857_G_01 - PLANTING PLAN 01
AWC 3 -17857_G_02 - PLANTING PLAN 02

LOCALITY PLAN - NTS

AWC
Australian Wetlands Consulting Pty Ltd
[redacted]



TREATMENT ZONES

COMPLETE REHABILITATION
Area = 2985m²

ASSISTED NATURAL REGENERATION
Area = 11161m²

Existing Trees
Protect roots when conducting soil preparation

APPROXIMATE REHABILITATION AREA

VEGETATION MANAGMENT PLAN :

Methodology and treatments for the rehabilitation of Highland Views Green Corridor, as part of the greater Biodiversity Corridor is currently being produced by AWC.

The VMP is required under Annexure D of the the Voluntary Planning Agreement (VPA) between Penrith City Council and various property owners for the Highland Views subdivision. The VMP must also meet the specifications in the Penrith Development Control Plan (DCP) 2006.

The aim of the VMP is to prescribe strategic actions for the restoration of vegetation in the biodiversity corridor in the northeast of the site to comply with relevant requirements of Penrith DCP. The VMP shall be the primary document to guide restoration of the site and be used as the basis for any contractors completing environmental works.

AWC
Australian Wetlands Consulting Pty Ltd
[redacted]

CLIENT
CCL DEVELOPMENT

REV.	ISSUE / AMENDMENTS	DATE
1	FOR DISCUSSION	20.11.2020

DRAFT

DESIGNED DMC/SS
DRAWN SS
CHECKED DMC

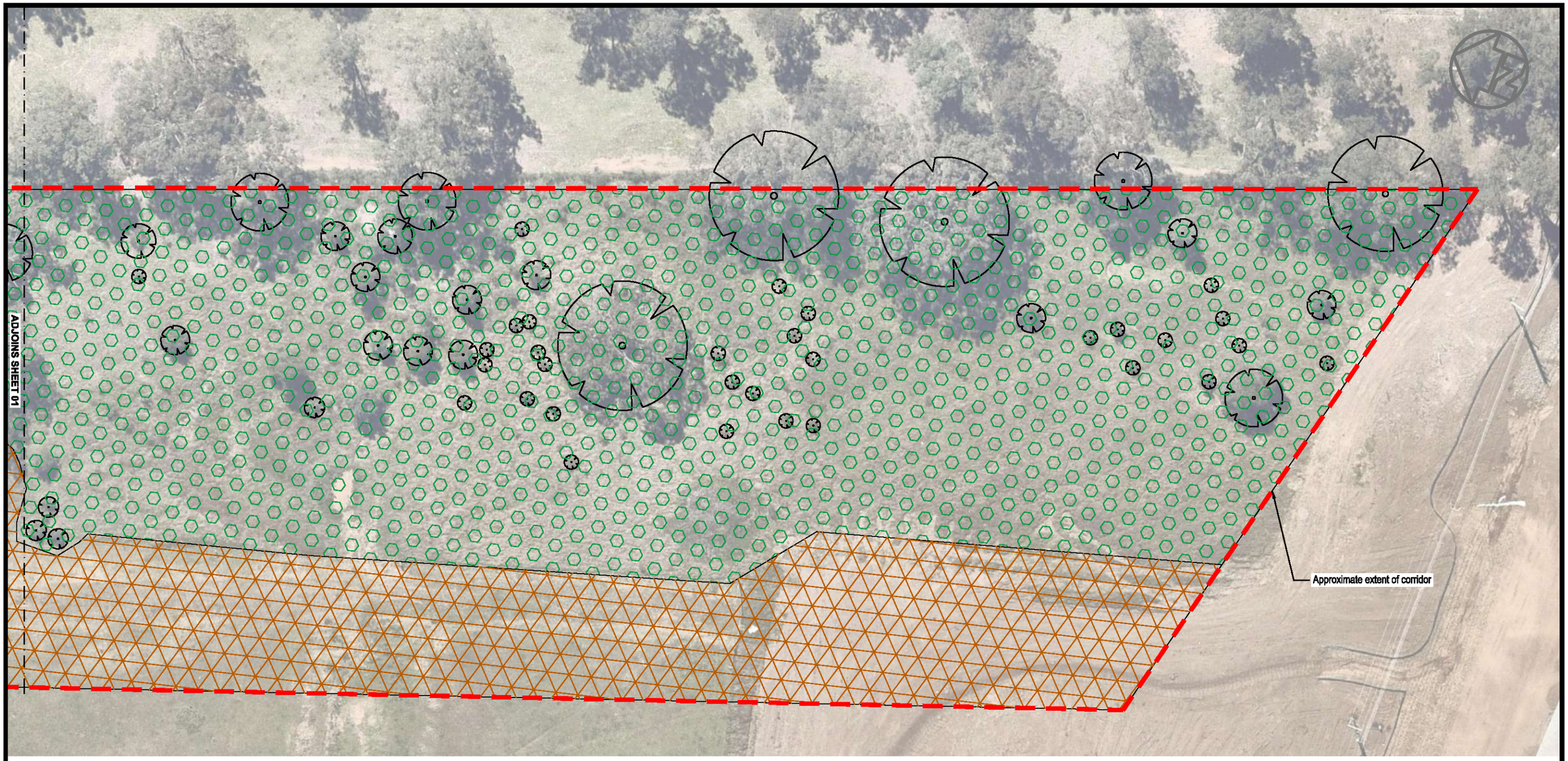
PROJECT
HIGHLAND VIEWS
GREEN CORRIDOR
GLENMORE PARK

DRAWING
PLANTING PLAN 01

DWG No. 3-17857_G_DD_01
CAD FILE No. 3-17857_Highland_DD.dwg
REV. 1

SCALE 1:500 @ A3
0 10 20m

DRAWING CREATED 18/07/2017



TREATMENT ZONES

COMPLETE REHABILITATION
Refer to sheet 01 for QTY

ASSISTED NATURAL REGENERATION
Refer to sheet 01 for QTY

Existing Trees
Protect roots when conducting soil preparation

APPROXIMATE REHABILITATION AREA

AWC
Australian Wetlands Consulting Pty Ltd
[redacted]

CLIENT

CCL DEVELOPMENT

REV.	ISSUE / AMENDMENTS	DATE
1	FOR DISCUSSION	20.11.2020

DRAFT

DESIGNED DMC/SS
DRAWN SS
CHECKED DMC

PROJECT
HIGHLAND VIEWS
GREEN CORRIDOR
GLENMORE PARK

DRAWING
PLANTING PLAN 02

DWG No. 3-17857_G_DD_02
CAD FILE No. 3-17857_Highland_DD.dwg
REV. 1

SCALE 1:500 @ A3
0 10 20m

DRAWING CREATED 18/07/2017