

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
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- STOREROOM/SHED
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- TELECOMMUNICATION TOWERS



GOOSE BAY ECO RIVER AND LIFESTYLE ESTATE

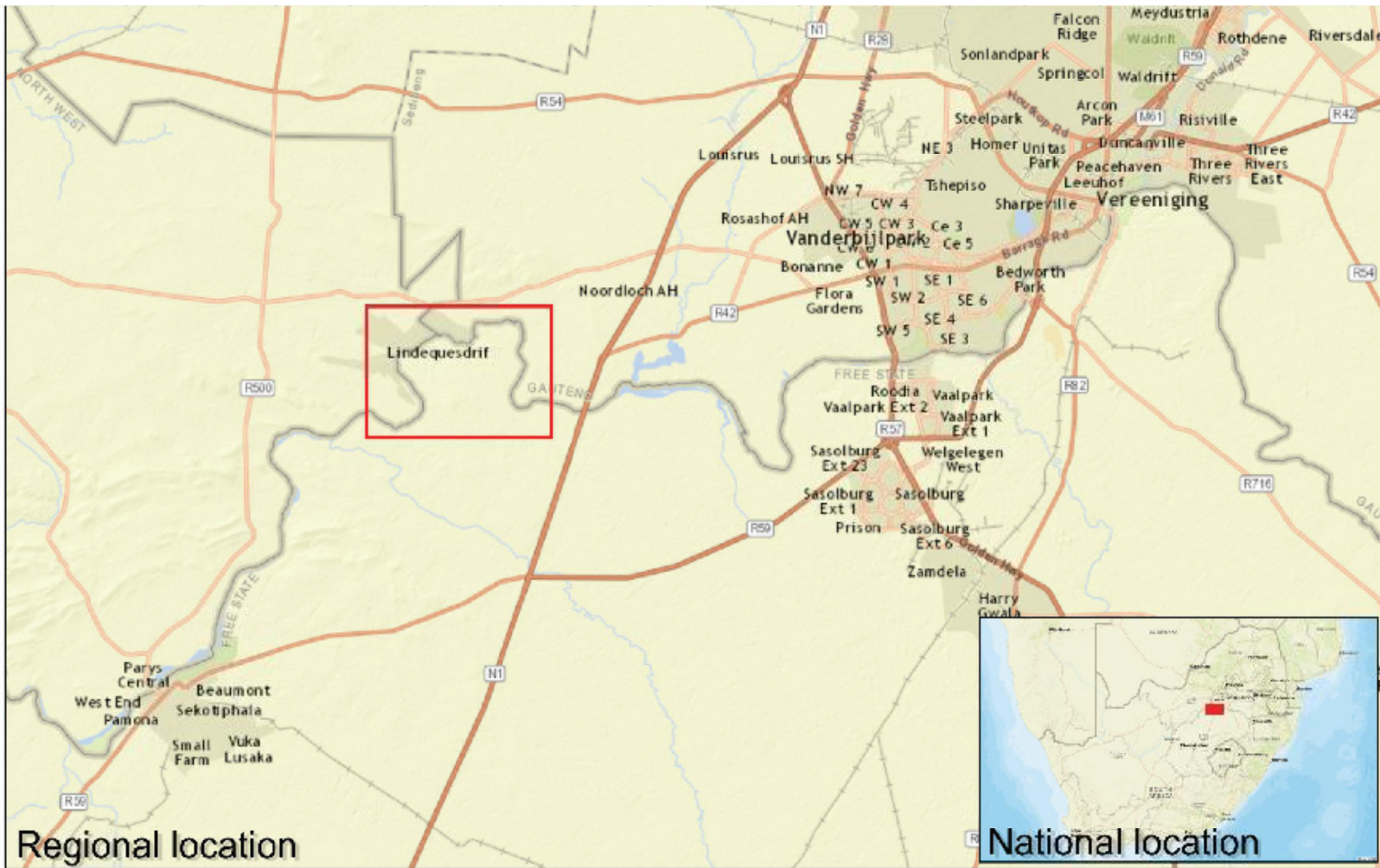
Vaal River – Parys

**VAN WYK LAND DEVELOPMENT CORPORATION (PTY) LTD
GROUP OF COMPANIES**



GOOSEBAY FARM LOCATION

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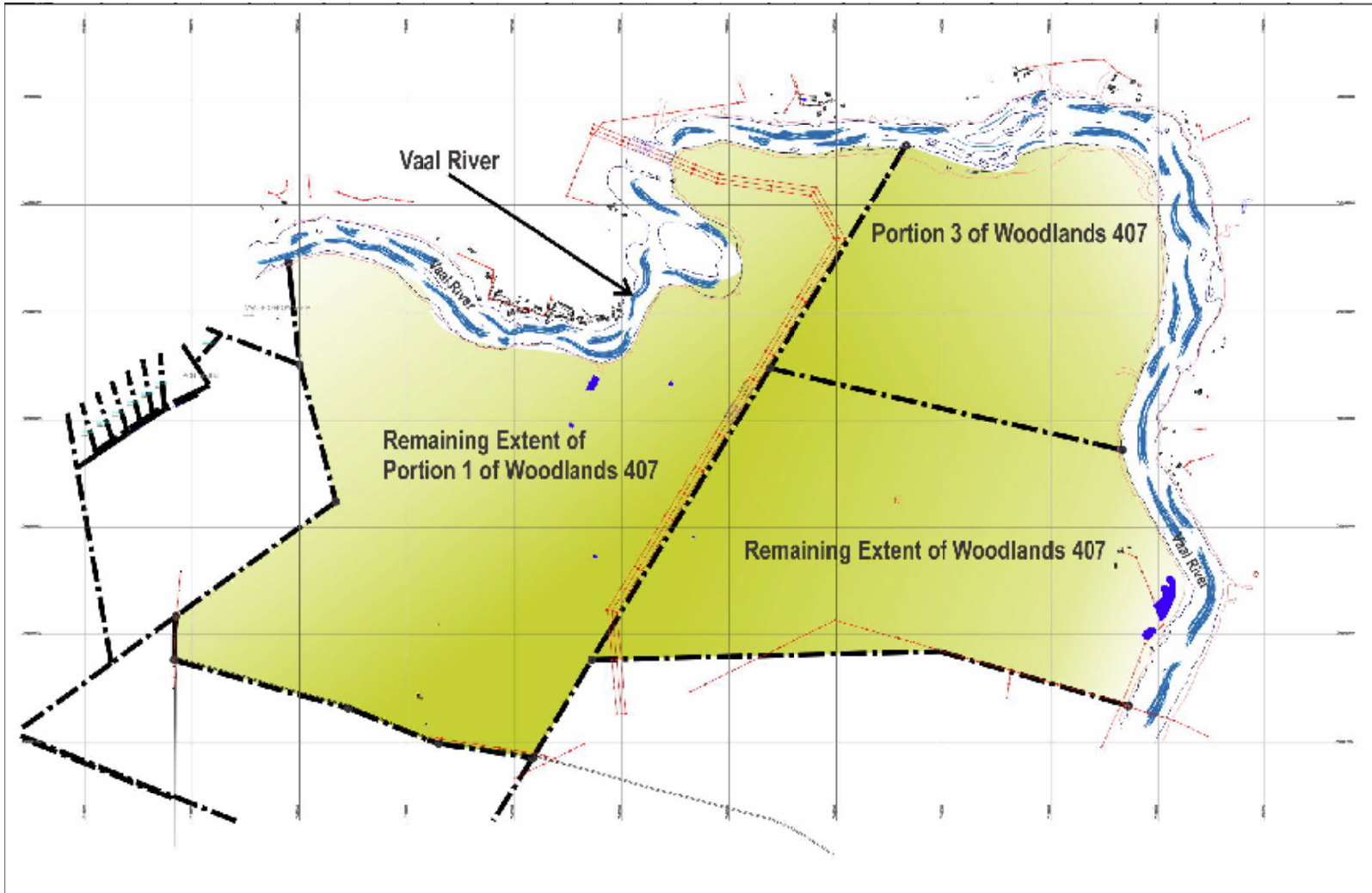


Regional location

National location

GOOSEBAY FARM – FARM PORTIONS

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TOTAL SURFACE AREA = 858ha

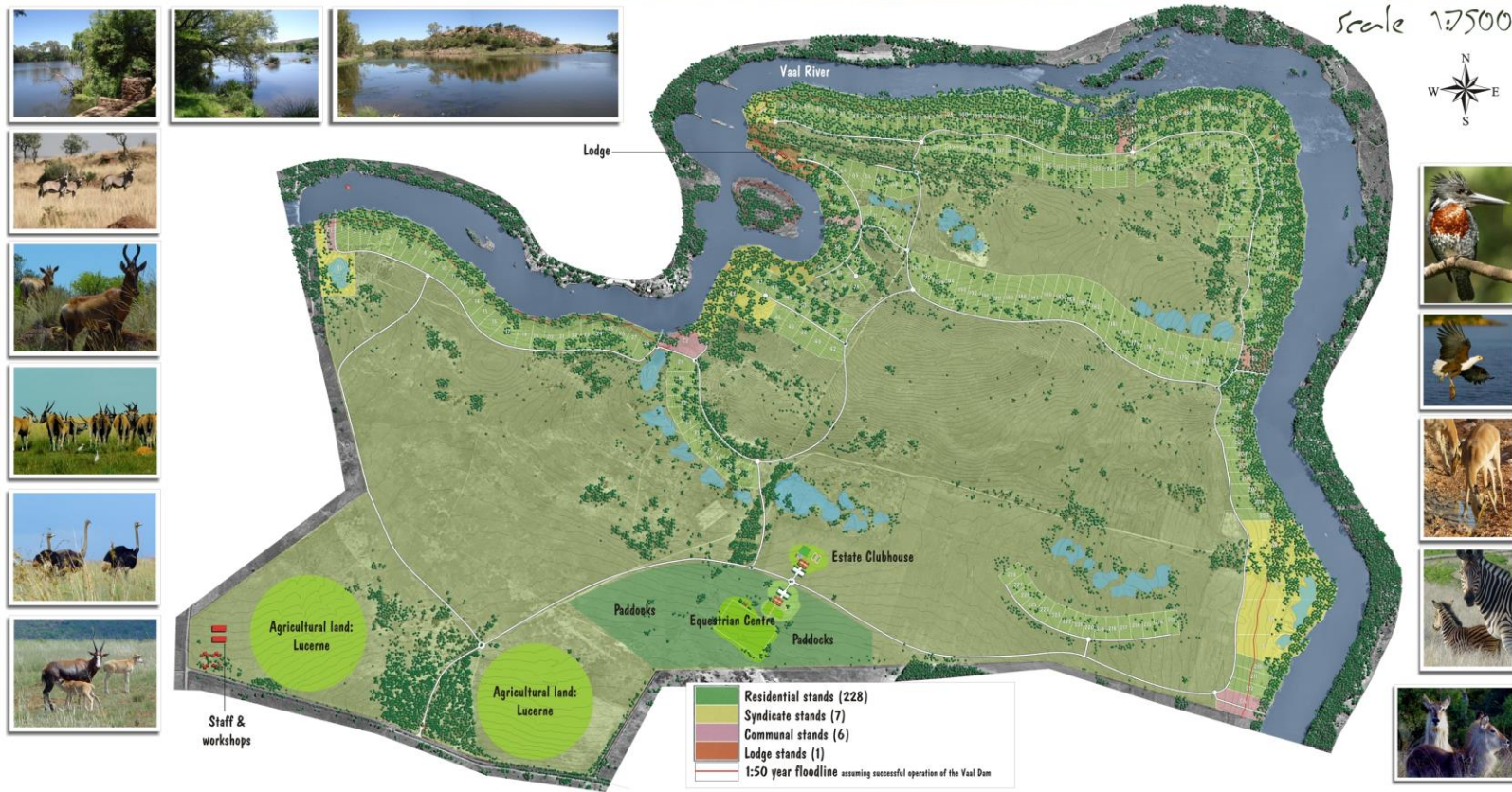
V&L MASTER PLAN (2008)

VAN WYK LAND DEVELOPMENT CORPORATION PTY (LTD)

Master plan



scale 1:7500

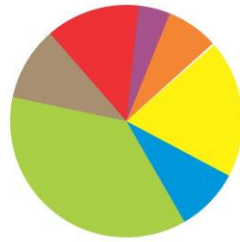


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SKETS MASTER PLAN CONCEPT (2018)

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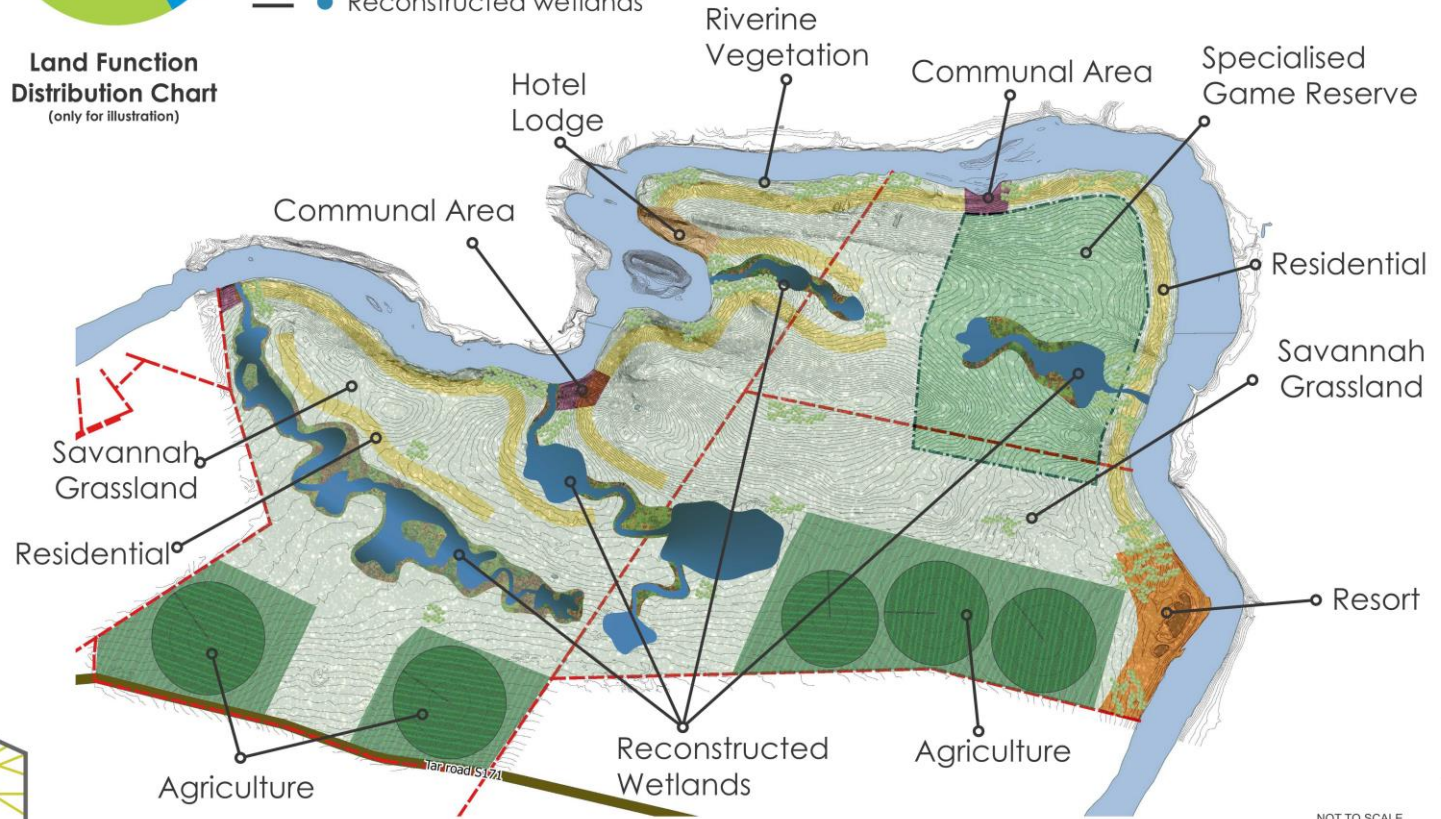


Land Function Distribution Chart
(only for illustration)

- Legend**
- Residential Area
 - Communal Area
 - Specialised Game Reserve
 - Natural Landscape
 - Agricultural Land
 - Resort/Lodge/Hotel
 - Reconstructed wetlands

Future vision for property: The three farm portions of the Farm Woodlands 407, which make up Goosebay Farm, were acquired by the VLDC Group in 2005. The company which currently owns Goosebay Farm is Goosebay Farm (Pty) Ltd. The VLDC Group bought Goosebay Farm with the intention of building a state-of-the-art Eco and River Lifestyle Estate.

Focus towards sustainable development of the property is of utmost importance. Protecting, restoring and promoting existing features on the property will benefit the ecological systems, aesthetic features and human experiences of the area.



Goosebay Eco River and Lifestyle Estate - Masterplan (2018)

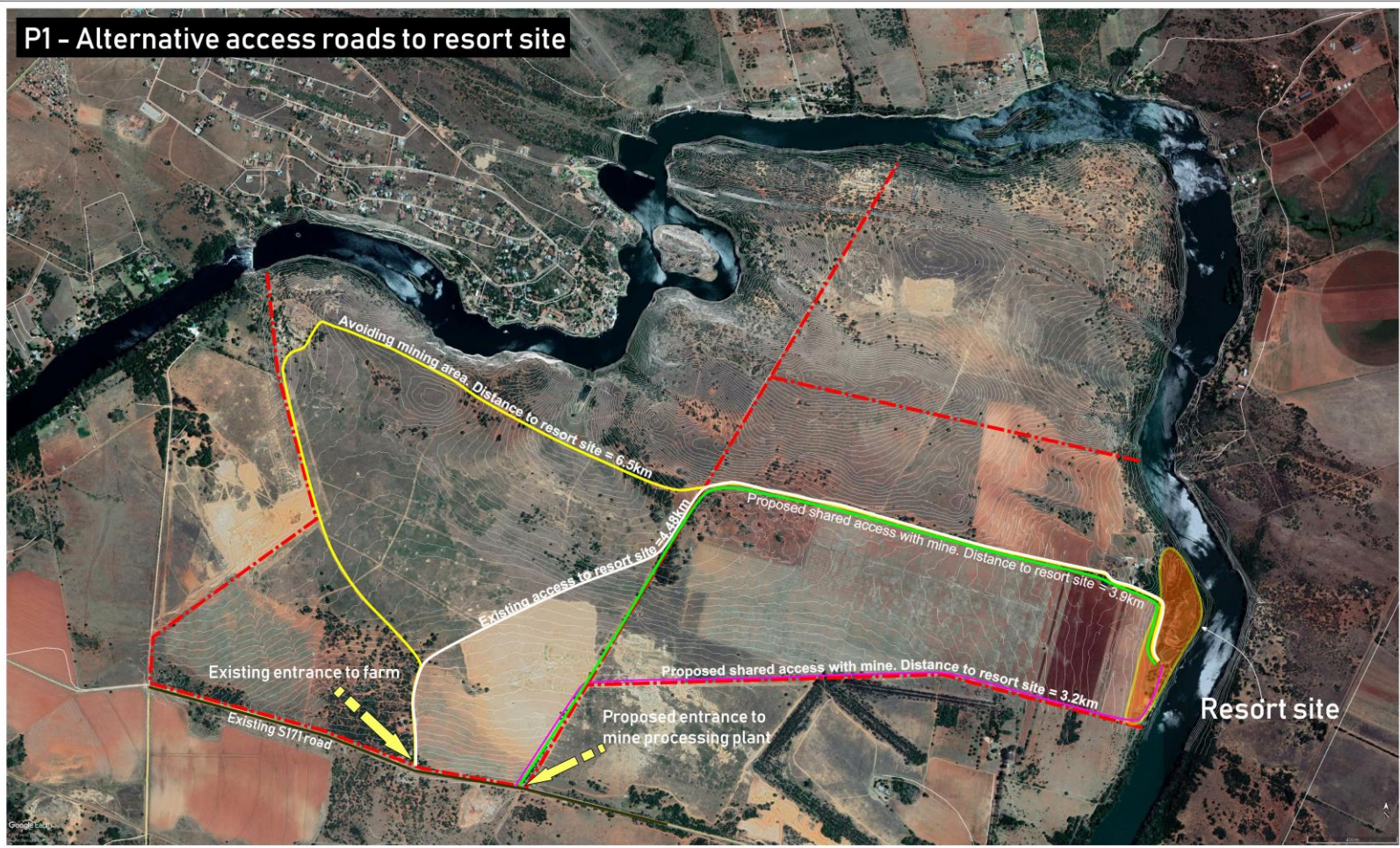
NOT TO SCALE
FOR PRESENTATION PURPOSE ONLY



ALTERNATIVE ROUTES TO RESORT SITE

- LOCALITY AND CONTEXT
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P1 - Alternative access roads to resort site



TITLE: SITE ANALYSIS FOR PROPOSED GOOSEBAY FARM RESORT DEVELOPMENT ON REMAINING EXTENT OF WOODLANDS 407		DRAWING NO: 1 of 1	DESIGNED AND DRAWN BY: MR. MADER VAN DEN BERG ON BEHALF OF SKETS ARCHITECTS AND PLANNING	P.O.BOX 14956 ZUURFONTEIN 1912
CLIENT: VAN WYK LAND DEVELOPMENT CORPORATION (PTY) LTD GROUP OF COMPANIES	REVISION NO: 0	DATE: 2019/05/21	SCALE: NOT TO SCALE	CELL: 076 169 1435 FAX: 086 520 4677 EMAIL: mader@skets.co.za



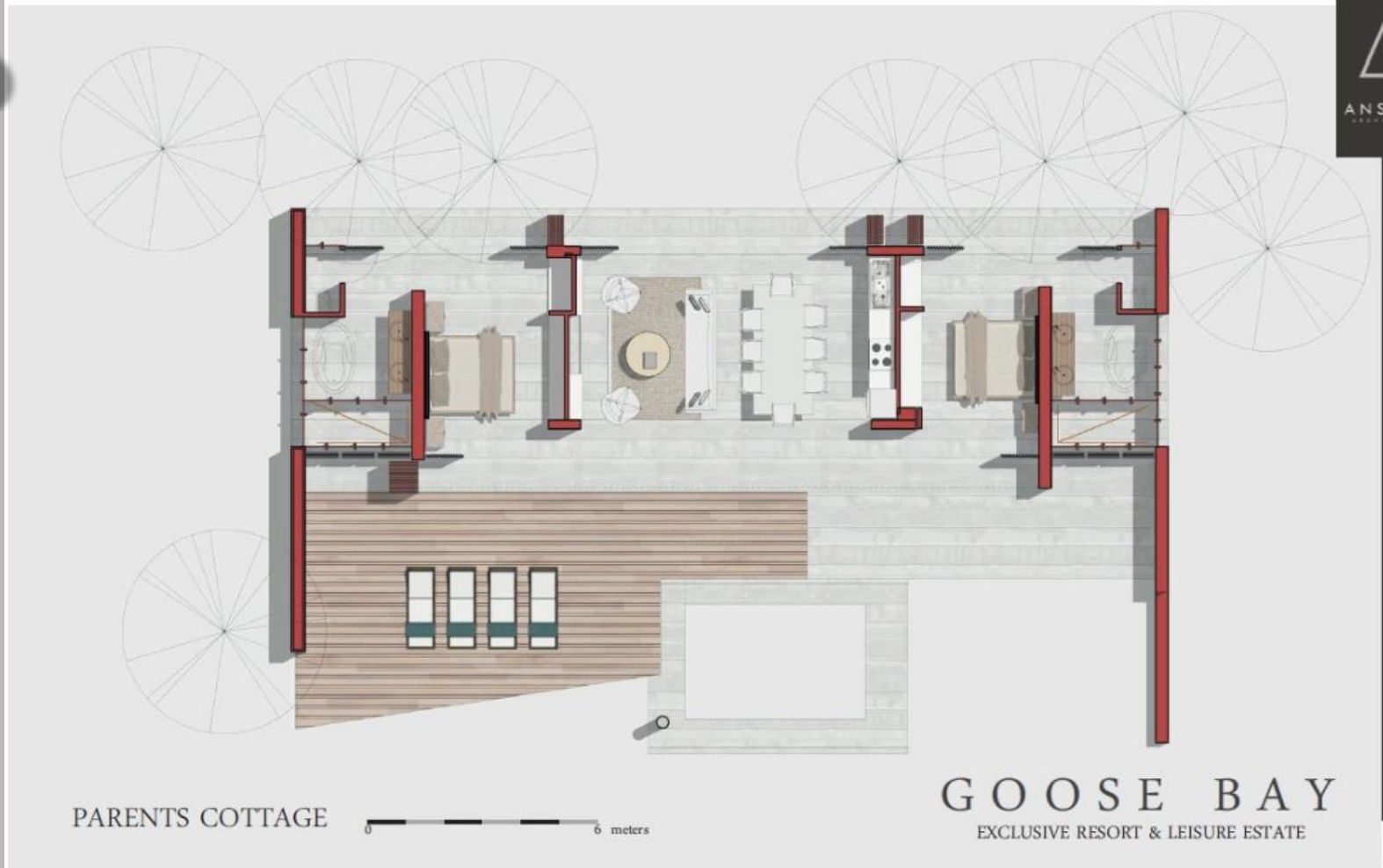
LUXURY CABIN DESIGNS - RENDERINGS

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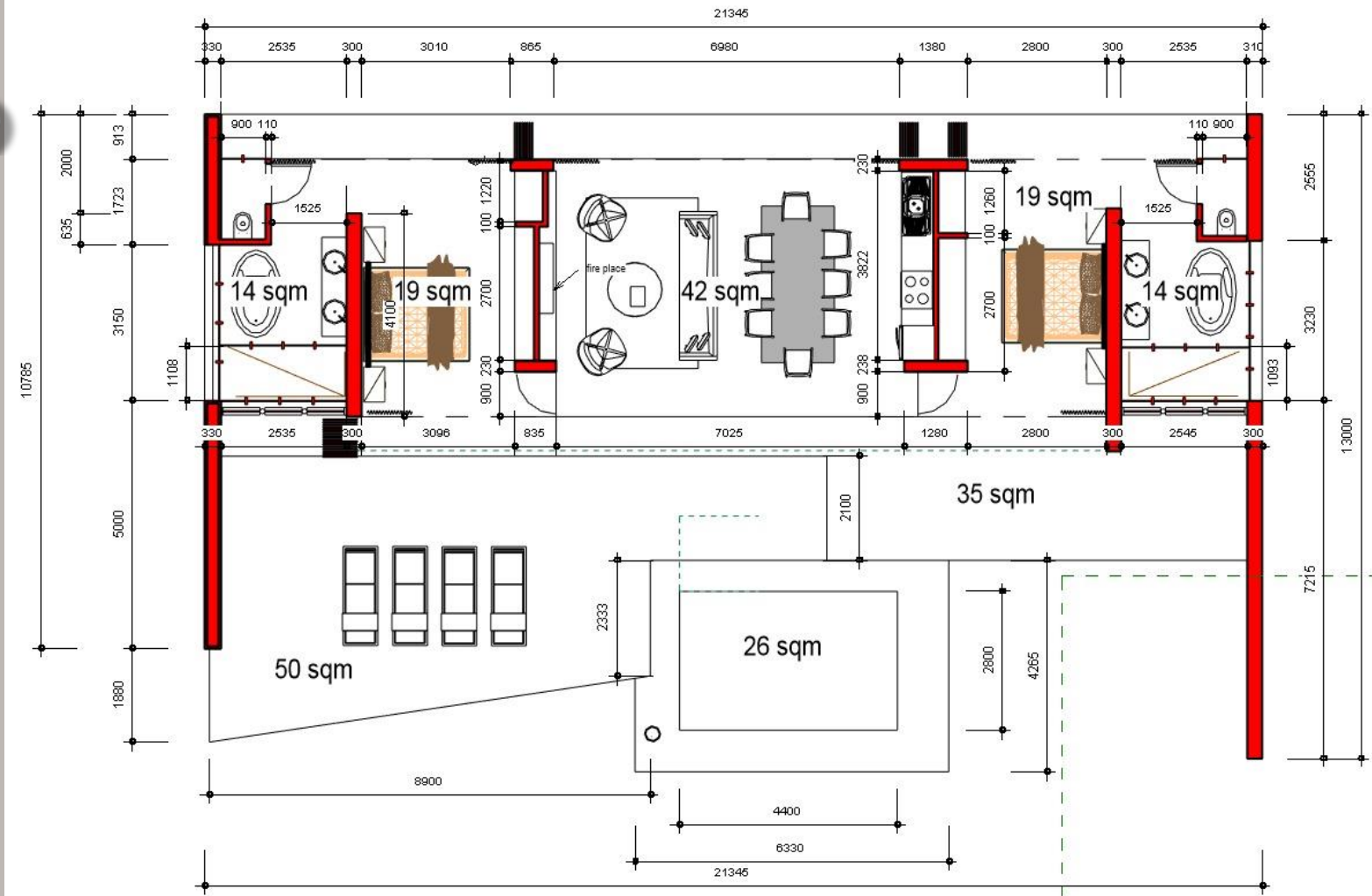
LUXURY CABIN DESIGNS – FLOOR PLAN

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GOOSE BAY EXCLUSIVE RESORT & LEISURE ESTATE



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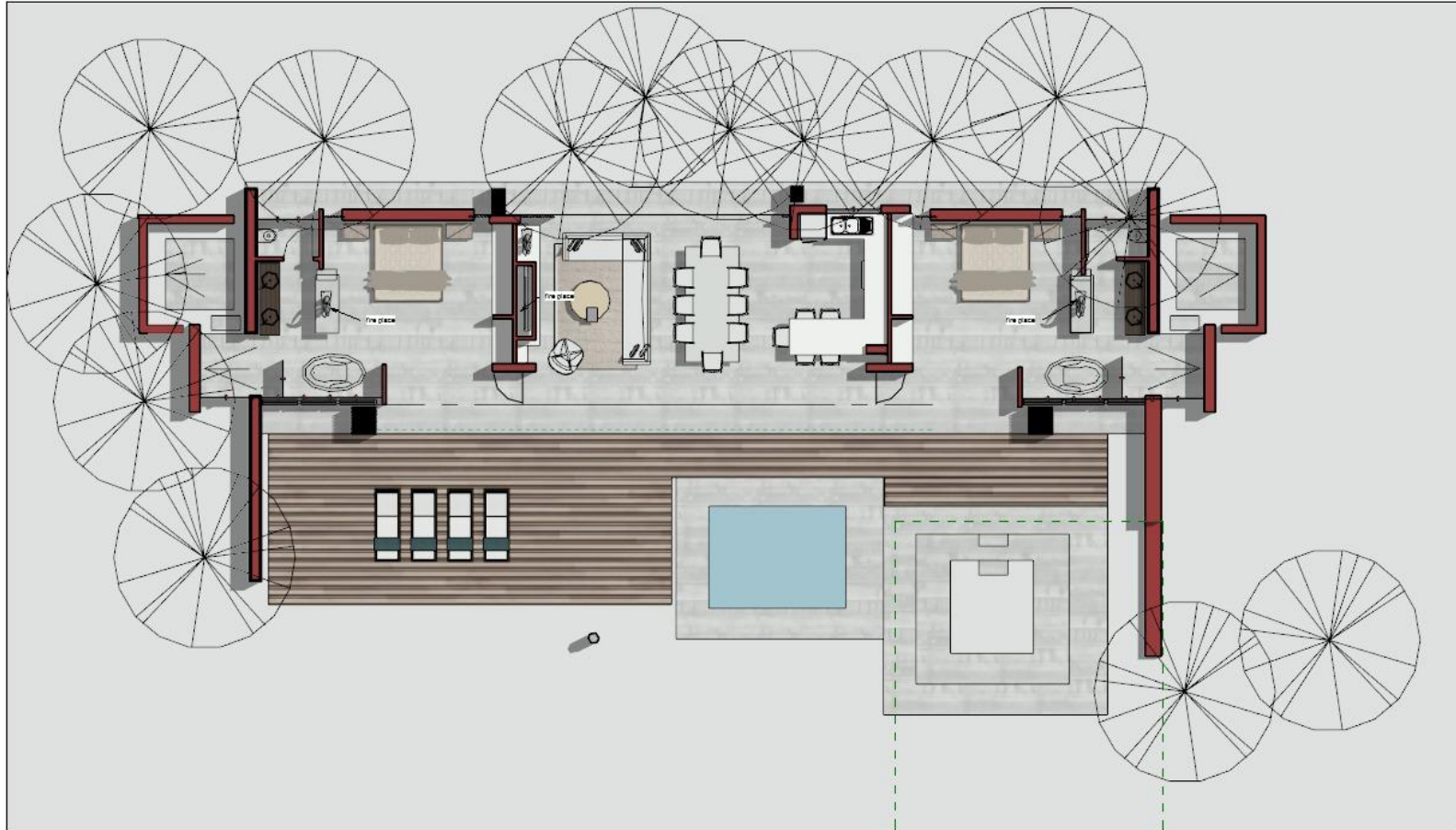
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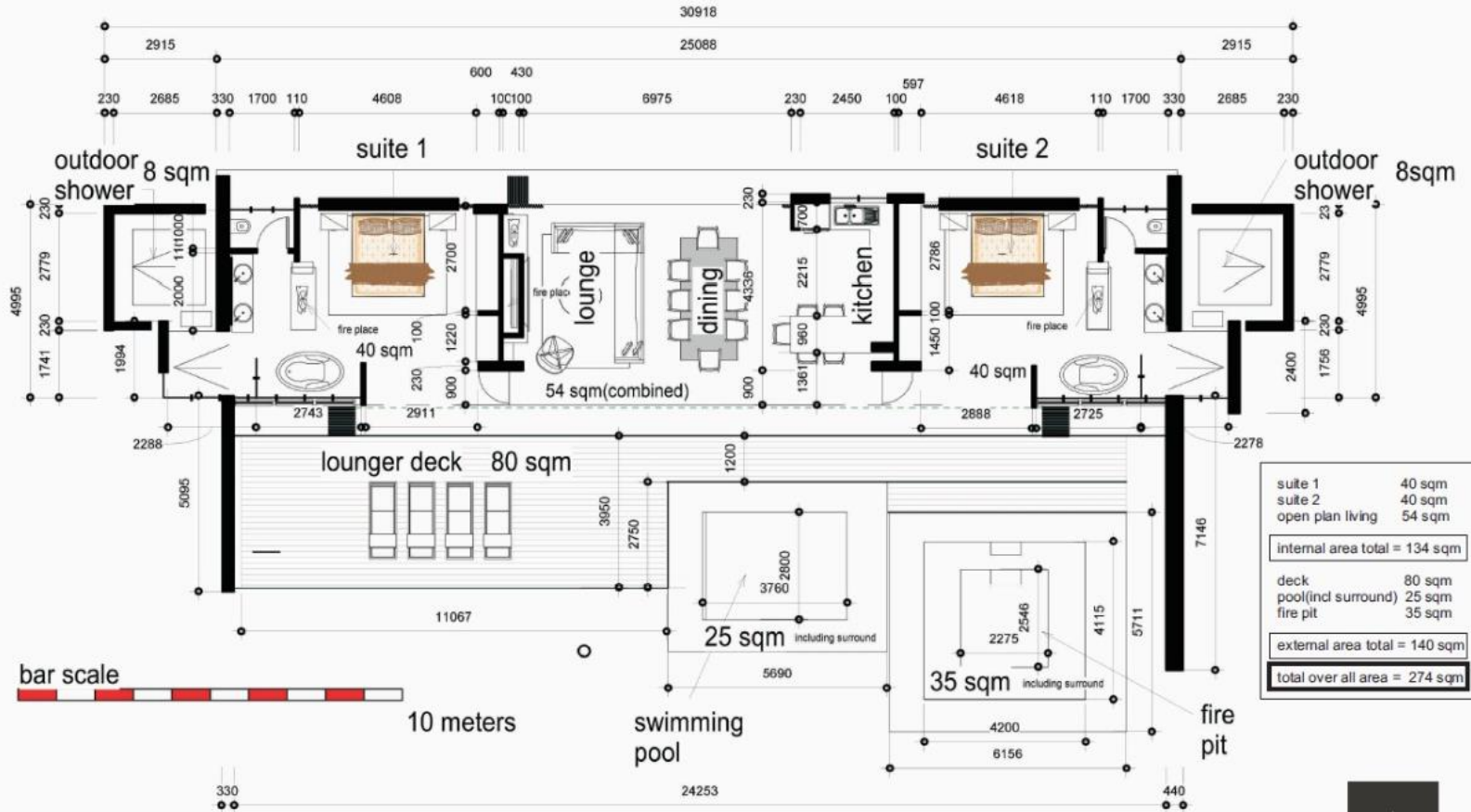
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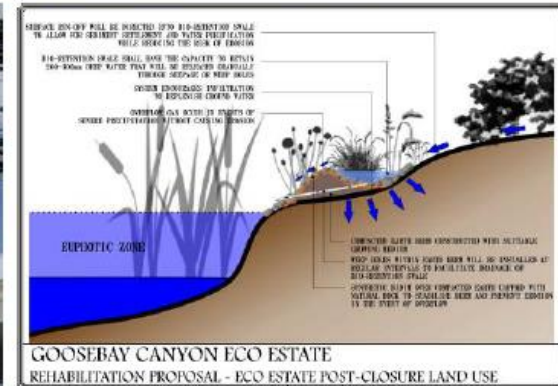
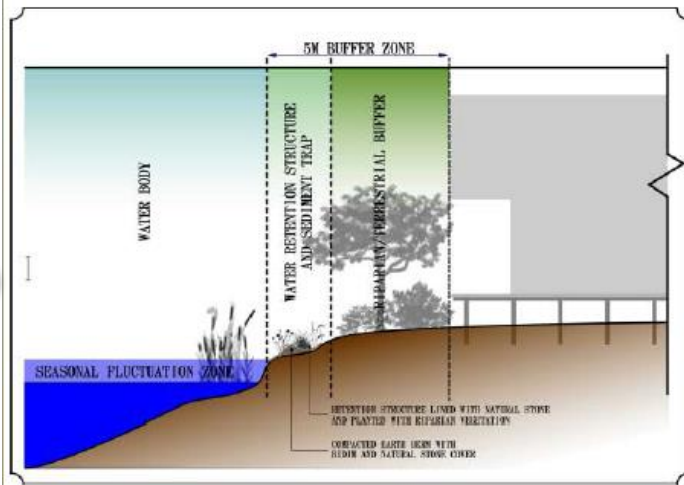
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VAN WYK LAND DEVELOPMENT CORPORATION (PTY)LTD



CONCEPT LANDSCAPING CONSIDERATIONS

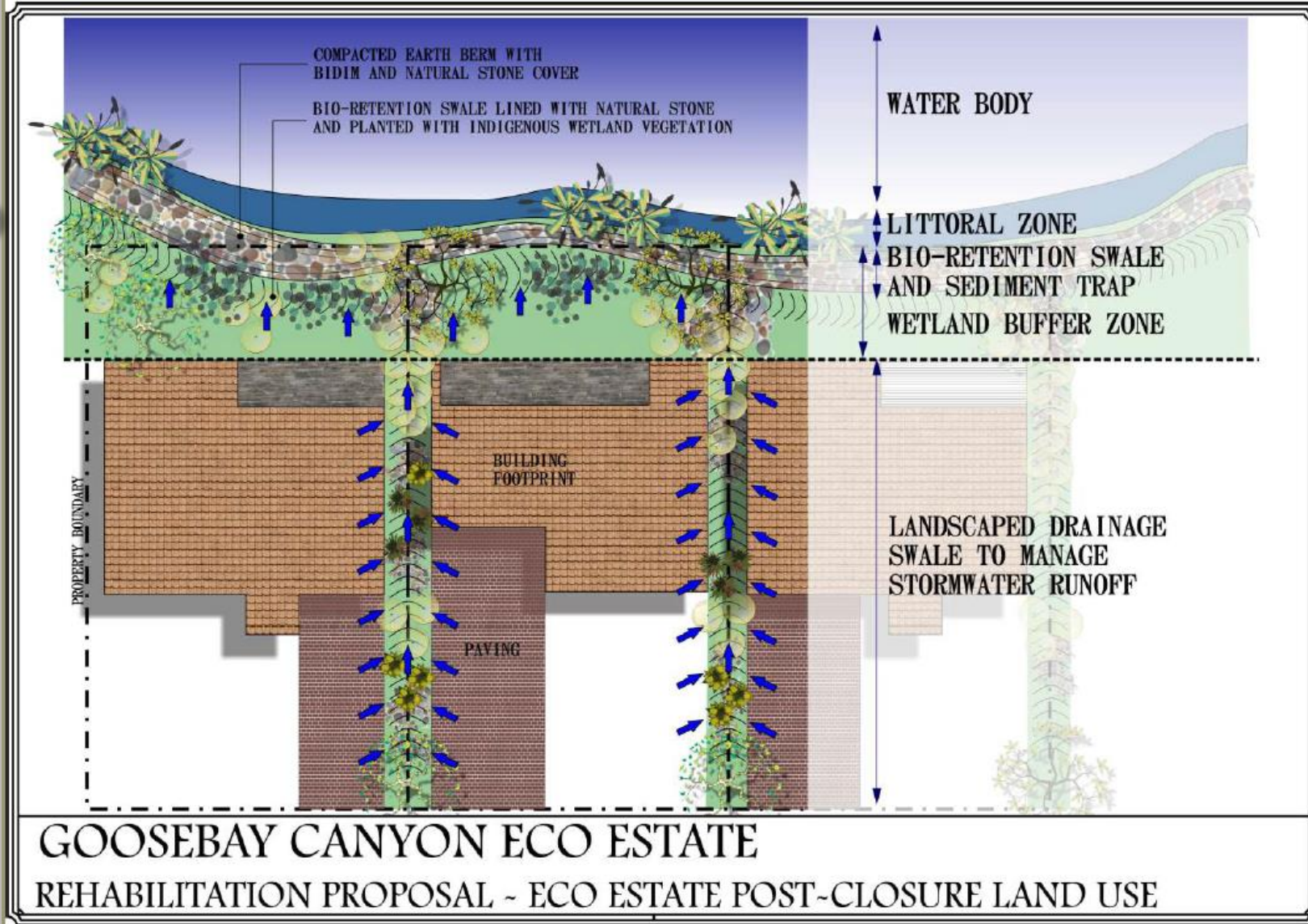
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GOOSEBAY CANYON ECO ESTATE
REHABILITATION PROPOSAL - ECO ESTATE POST-CLOSURE LAND USE

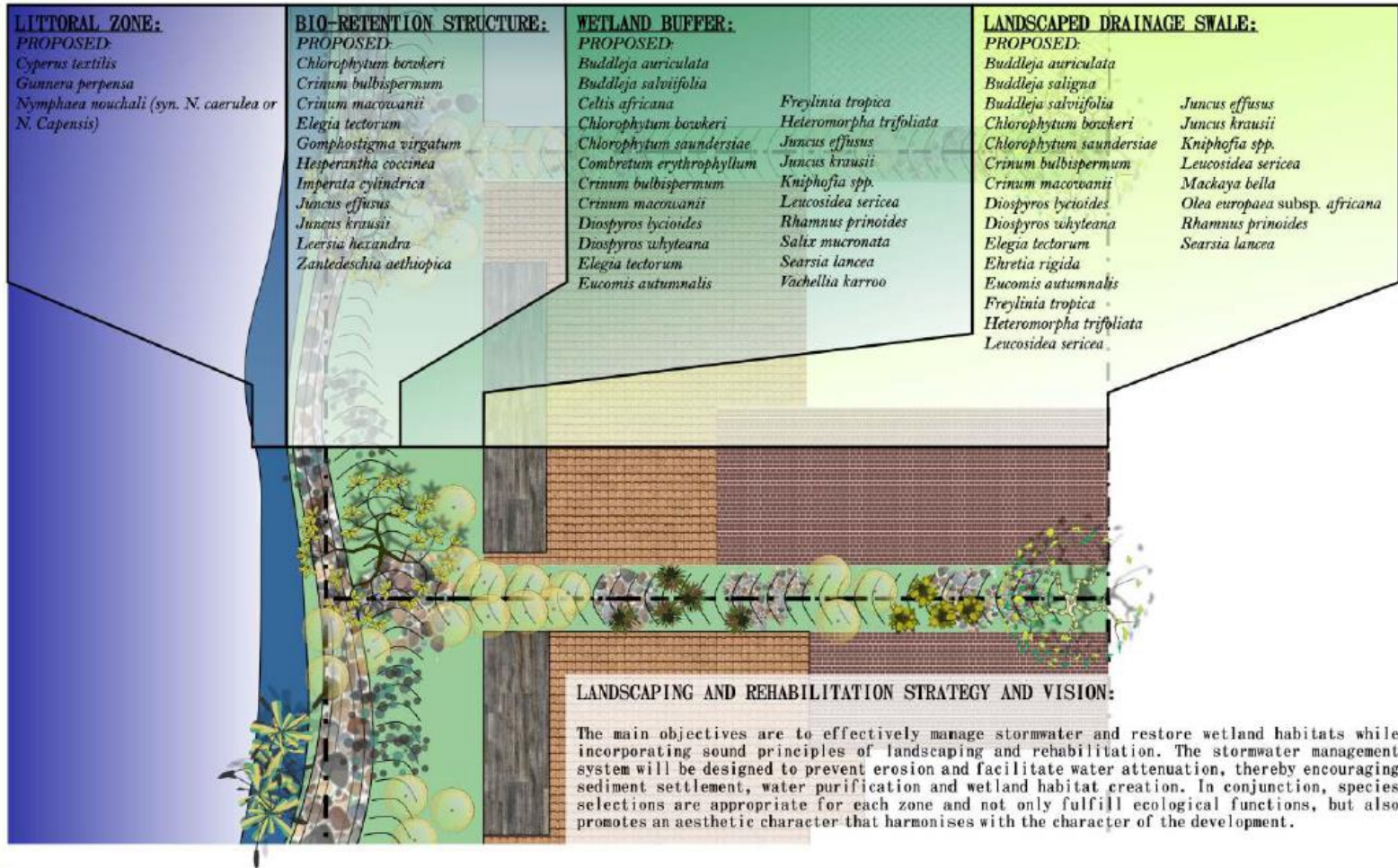
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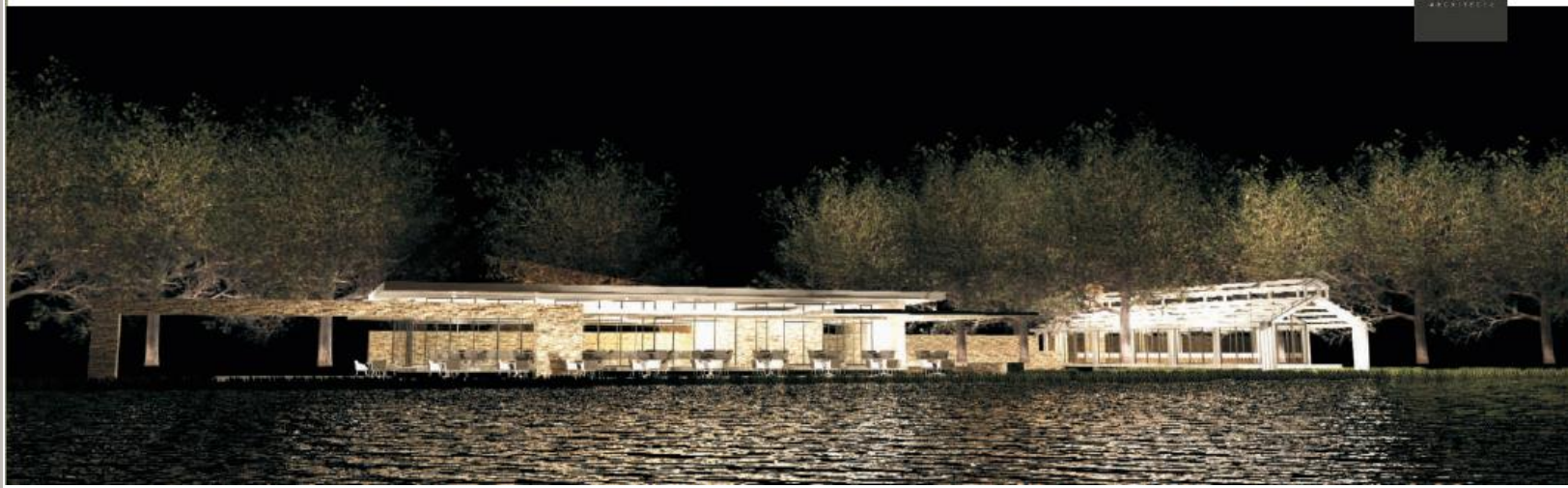
LANDSCAPING AND REHABILITATION STRATEGY AND VISION:

The main objectives are to effectively manage stormwater and restore wetland habitats while incorporating sound principles of landscaping and rehabilitation. The stormwater management system will be designed to prevent erosion and facilitate water attenuation, thereby encouraging sediment settlement, water purification and wetland habitat creation. In conjunction, species selections are appropriate for each zone and not only fulfill ecological functions, but also promotes an aesthetic character that harmonises with the character of the development.

GOOSEBAY CANYON ECO ESTATE REHABILITATION PROPOSAL ~ ECO ESTATE POST-CLOSURE LAND USE

CONFERENCE AND WEDDING VENUE RENDERINGS

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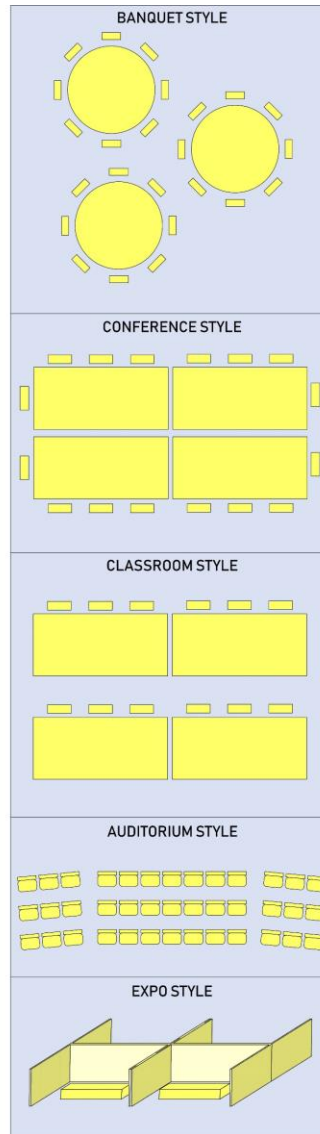


CONFERENCE AND WEDDING VENUE FLOOR RATIOS

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	No. of guests	Table arrangement		Minimum m ² requirements
1,1	50	Banquet Style	60" round tables	56m ²
1,2			72" round tables	61m ²
1,3		Conference Style	Guests sit on all sides	140m ²
1,4		Classroom Style	18" wide desks	66m ²
1,5			30" wide desks	79m ²
1,6		Auditorium Style	Rows of chairs	42m ²
1,7		Expo Style	2,43 x 3,05m booth	744m ²
1,8			3,05 x 3,05m booth	930m ²
2,1	70	Banquet Style	60" round tables	79m ²
2,2			72" round tables	85m ²
2,3		Conference Style	Guests sit on all sides	196m ²
2,4		Classroom Style	18" wide desks	92m ²
2,5			30" wide desks	111m ²
2,6		Auditorium Style	Rows of chairs	59m ²
2,7		Expo Style	2,43 x 3,05m booth	1 041m ²
2,8			3,05 x 3,05m booth	1 301m ²
3,1	100	Banquet Style	60" round tables	112m ²
3,2			72" round tables	121m ²
3,3		Conference Style	Guests sit on all sides	279m ²
3,4		Classroom Style	18" wide desks	131m ²
3,5			30" wide desks	158m ²
3,6		Auditorium Style	Rows of chairs	84m ²
3,7		Expo Style	2,43 x 3,05m booth	1 487m ²
3,8			3,05 x 3,05m booth	1 859m ²
4,1	120	Banquet Style	60" round tables	134m ²
4,2			72" round tables	145m ²
4,3		Conference Style	Guests sit on all sides	335m ²
4,4		Classroom Style	18" wide desks	157m ²
4,5			30" wide desks	190m ²
4,6		Auditorium Style	Rows of chairs	101m ²
4,7		Expo Style	2,43 x 3,05m booth	1 784m ²
4,8			3,05 x 3,05m booth	2 230m ²
5,1	150	Banquet Style	60" round tables	168m ²
5,2			72" round tables	182m ²
5,3		Conference Style	Guests sit on all sides	419m ²
5,4		Classroom Style	18" wide desks	196m ²
5,5			30" wide desks	237m ²
5,6		Auditorium Style	Rows of chairs	126m ²
5,7		Expo Style	2,43 x 3,05m booth	2 230m ²
5,8			3,05 x 3,05m booth	2 788m ²

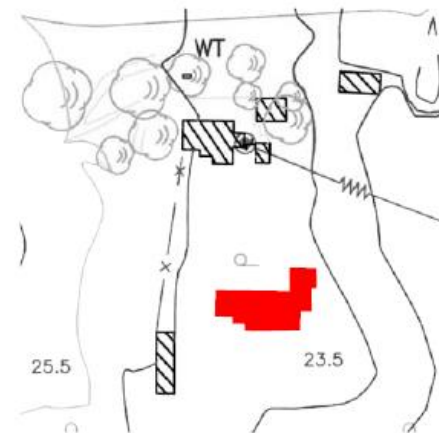
<https://www.confpeople.co.uk/free-venue-finding/room-capacity-calculator>



Other space requirements for a wedding	Other space requirements for a conference or expo
Head table for main guests	Presenter's stage/podium
Dance floor	Information kiosk
Band or DJ	Multi-media control station
Cake table	Tea and coffee station
Gifts table	Buffet or food station
Wedding bar	Reception space
Buffet or food station	Break away space for groups
Reception space	Wheel chair access
Ablution	Storage space for tables and chairs
Wheel chair access	Ablution
Storage space for tables and chairs	

STABLE CONVERSION CONCEPTS

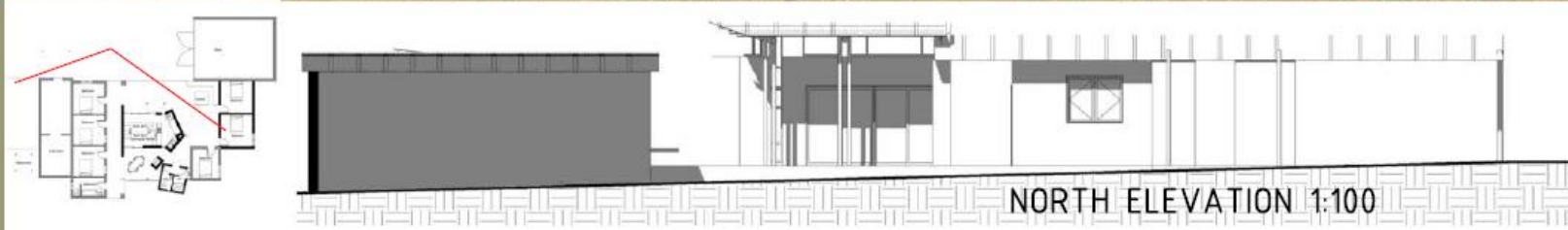
FLOOR PLAN 1:100 BEDROOMS + COMMUNAL KITCHEN



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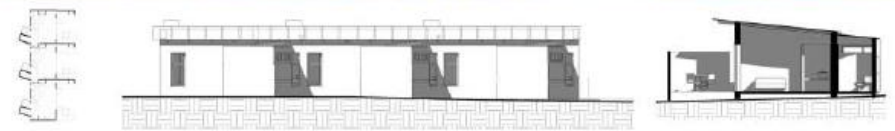
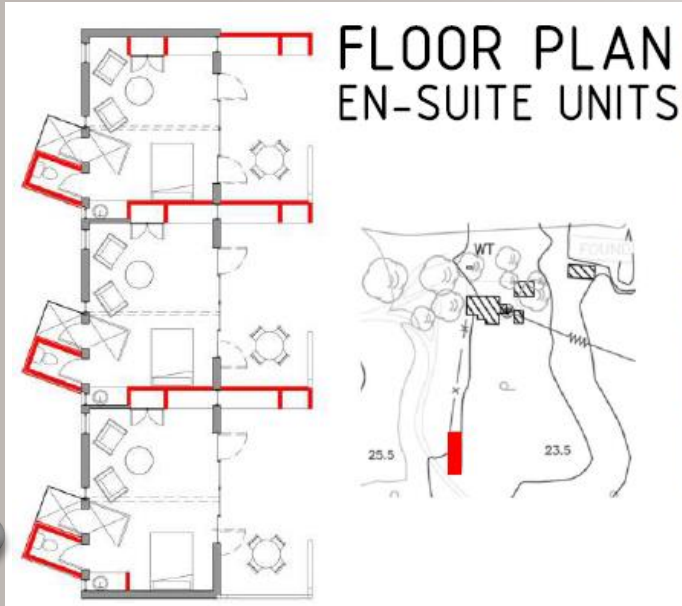
STABLE CONVERSION CONCEPTS

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



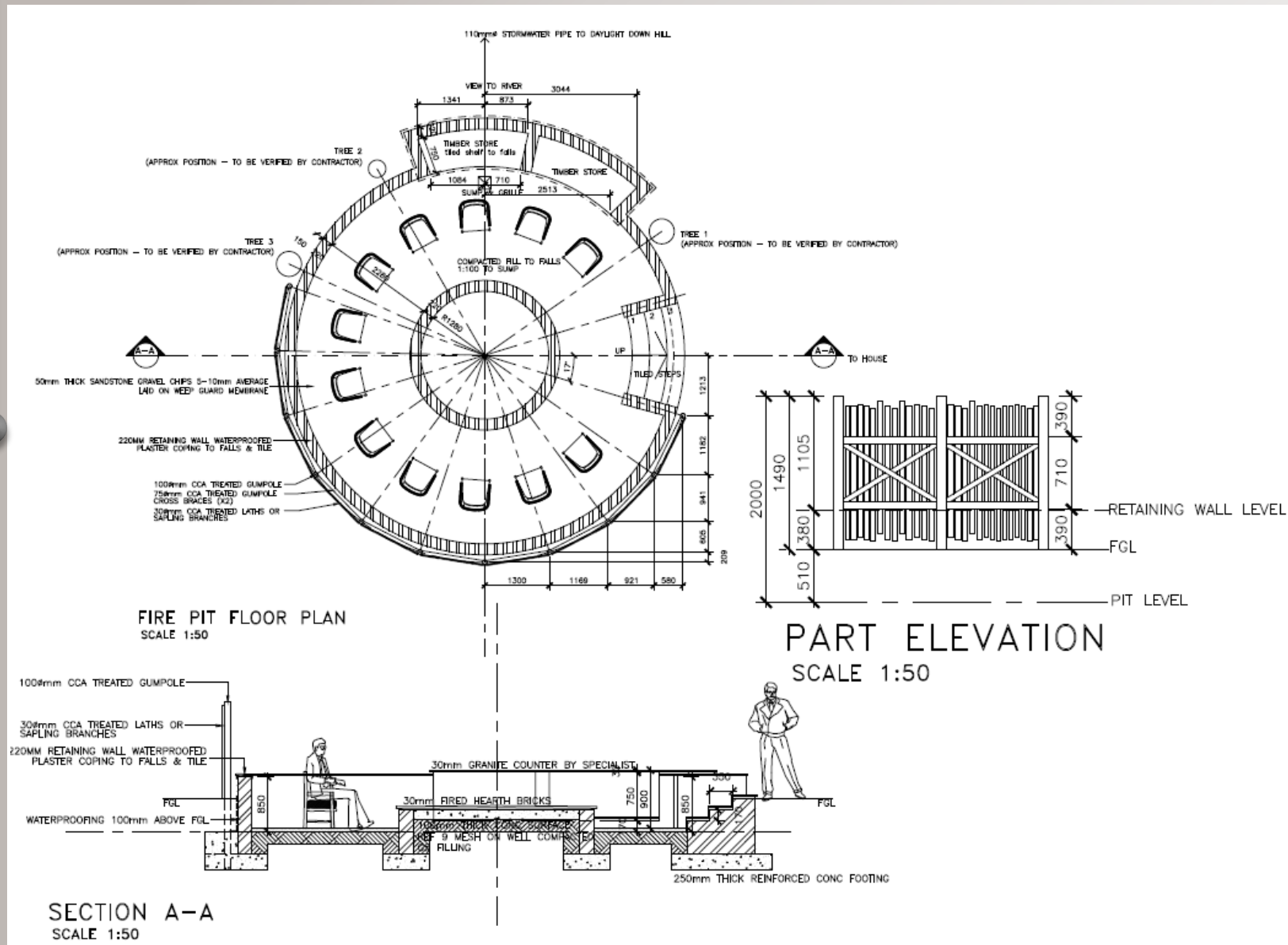
STABLE CONVERSION CONCEPTS

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
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- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



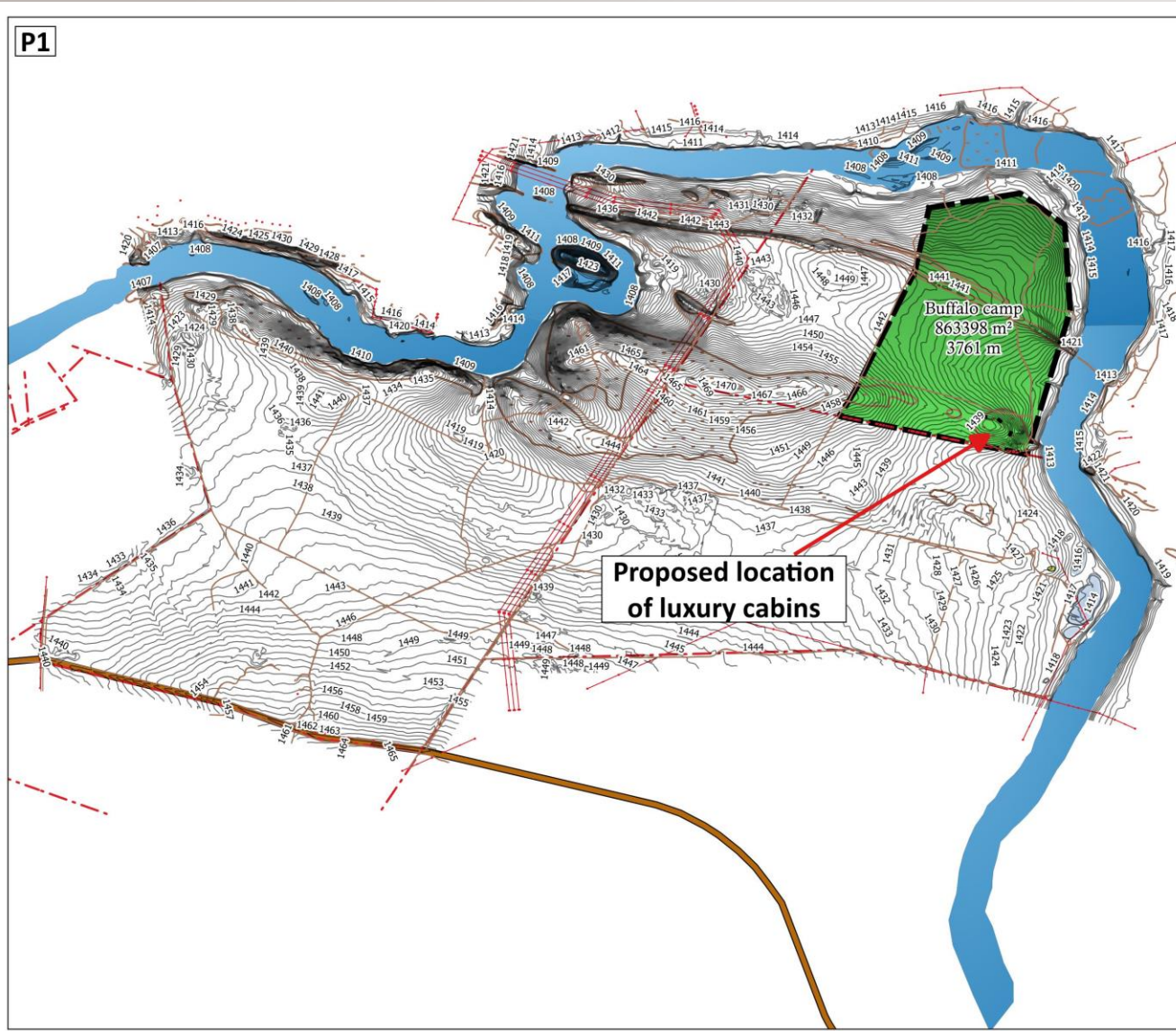
FIRE PIT DESIGN CONCEPT

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
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- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



BUFFALO CAMP UNITS – PROPOSED LOCATION

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



P1

Legend

- 1m Contour data
- - - Farm boundaries
- Access road to units
- Proposed Buffalo camp 2019_05_25

Unit 1 position -26.744155, 27.629032
 Unit 2 position -26.744330, 27.629688
 Unit 3 position -26.744889, 27.630166
 (WGS 84)

CLIENT:
GOOSEBAY FARM (PTY) LTD

DRAWING TITLE:
 Proposed Buffalo camp on Goose Bay Eco River and Lifestyle Estate
 DESCRIPTION:
 Proposed location of buffalo or specialised game camp

DATE: 2019-05-25 SCALE (A3): 1:12 000

DRAWING NO: 1 of 3 DRAWING VERSION: 2

DRAWING PREPARED BY:
 MR. MADER VAN DEN BERG
 ML(PROF) IN LANDSCAPE ARCHITECTURE

CONTACT DETAILS:
 P.O. BOX 14956
 ZURFONTEIN 1912
 TEL: +0776 169 1435
 FAX: 086 520 4677
 EMAIL: mader@skets.co.za



BUFFALO CAMP UNITS – PROPOSED LOCATION

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



Legend

- 1m Contour data
- - - Farm boundaries
- Access road to units
- View analysis from unit site

Unit 1 position -26.744155, 27.629032
 Unit 2 position -26.744330, 27.629688
 Unit 3 position -26.744889, 27.630166
 (WGS 84)

CLIENT:
GOOSEBAY FARM (PTY) LTD

DRAWING TITLE:
 Proposed Buffalo camp on Goose Bay Eco River and Lifestyle Estate
 DESCRIPTION:
 Site analysis and location of proposed luxury units inside Buffalo camp

DATE: 2019-05-25 SCALE (A3): 1:1 000

DRAWING NO: 2 of 3 DRAWING VERSION: 2

DRAWING PREPARED BY:
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BUFFALO CAMP UNITS – VIEWS ANALYSIS

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS

P3

The original proposed site for a single unit, was on the crest of the hill. This site has one advantage which is the 360° panoramic views with glimpses of the Vaal River. The disadvantages can be listed as following:

1. Due to its elevated location, it is extremely exposed to weather conditions such as wind and sun, which may be unpleasant on the deck.
2. The exposed location also poses a risk to privacy of the visitors to the unit as there will be a poorly defined sense of enclosure. The current design of the unit provides open rooms and patios to maximise exposure to the surrounding environment. The inverse effect is that viewers from the surrounding area can look into the unit as well.
3. The site also has a view to the south which is the least attractive due to the presence of the maize fields and storage facilities. Farming activities may cause a noise factor that could be unpleasant to visitors.
4. A structure on the crest of the hill will blemish the natural ridges when viewed from the surrounding areas on the farm. A structure protruding above the horizon, can be very intrusive due to its interference with the natural skyline and the impact on the natural character.

Subsequent to the above argument, it is recommended to locate the unit on another site. A site analysis concluded that three sites are suitable for unit construction which presents the following advantages:

1. All three proposed sites are just off the crest of the hill which provides more protection from environmental factors. Site 1 and 2 faces north and north east respectively, which are ideal orientations for most buildings. Site 3 faces east south east which is less ideal, but have a view towards the river. Each of the sites have unique views of the environment and will be further enhanced through the development of the specialised game camp.
2. A greater sense of enclosure is provided as the units are placed near vegetation clumps which also enhances privacy, without compromising on exclusivity. This opens the possibility of constructing three units instead of one which has economic advantages.
3. The units will be less visible from the surrounding areas and the natural character of the ridge is maintained.

Unit 1



Unit 2



Unit 3



Legend

Unit 1 position -26.744155, 27.629032
 Unit 2 position -26.744330, 27.629688
 Unit 3 position -26.744889, 27.630166
 (WGS 84)

CLIENT:

GOOSEBAY FARM (PTY) LTD

DRAWING TITLE:
 Proposed Buffalo camp on Goose Bay Eco River and Lifestyle Estate
 DESCRIPTION:
 Site analysis and panoramic views from units

DATE: 2019-05-25 SCALE (A3):

DRAWING NO: 3 of 3 DRAWING VERSION: 2

DRAWING PREPARED BY:
 MR. MADER VAN DEN BERG
 ML(PROF) IN LANDSCAPE ARCHITECTURE

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BUFFALO CAMP – PROPOSED FENCE OPTIONS

LOCALITY AND CONTEXT

GOOSEBAY ECO ESTATE MASTER PLANS

GOOSEBAY ECO ESTATE LUXURY CABINS

GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS

GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE

GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT

GOOSEBAY ECO ESTATE BUFFALO CAMP

STOREROOM/SHED

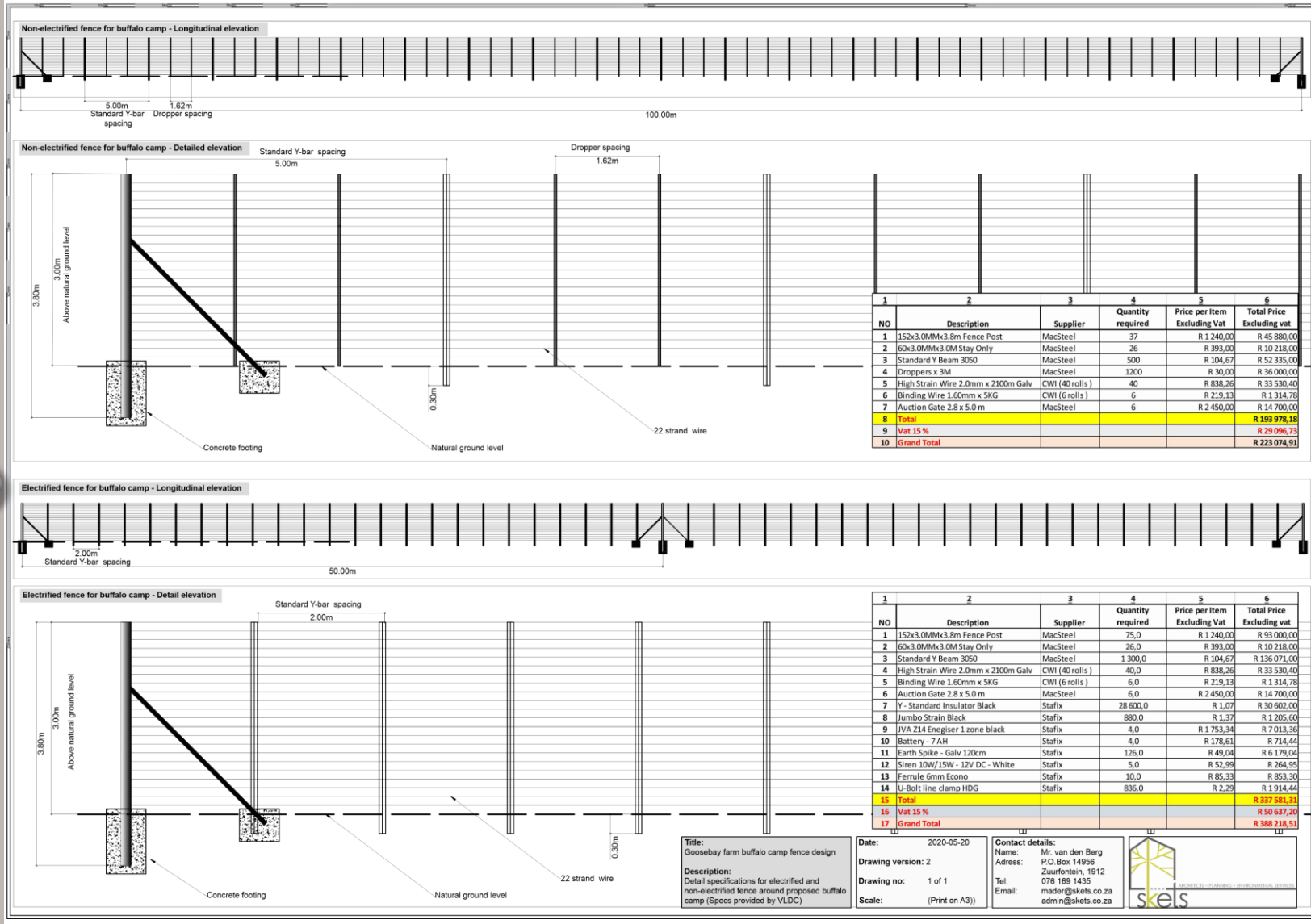
GOOSEBAY DAMS

BOREHOLES AND MONITORING POINTS

AGRICULTURE

MINING AND REHABILITATION

TELECOMMUNICATION TOWERS



Title: Goosebay farm buffalo camp fence design
Description: Detail specifications for electrified and non-electrified fence around proposed buffalo camp (Specs provided by VLDC)

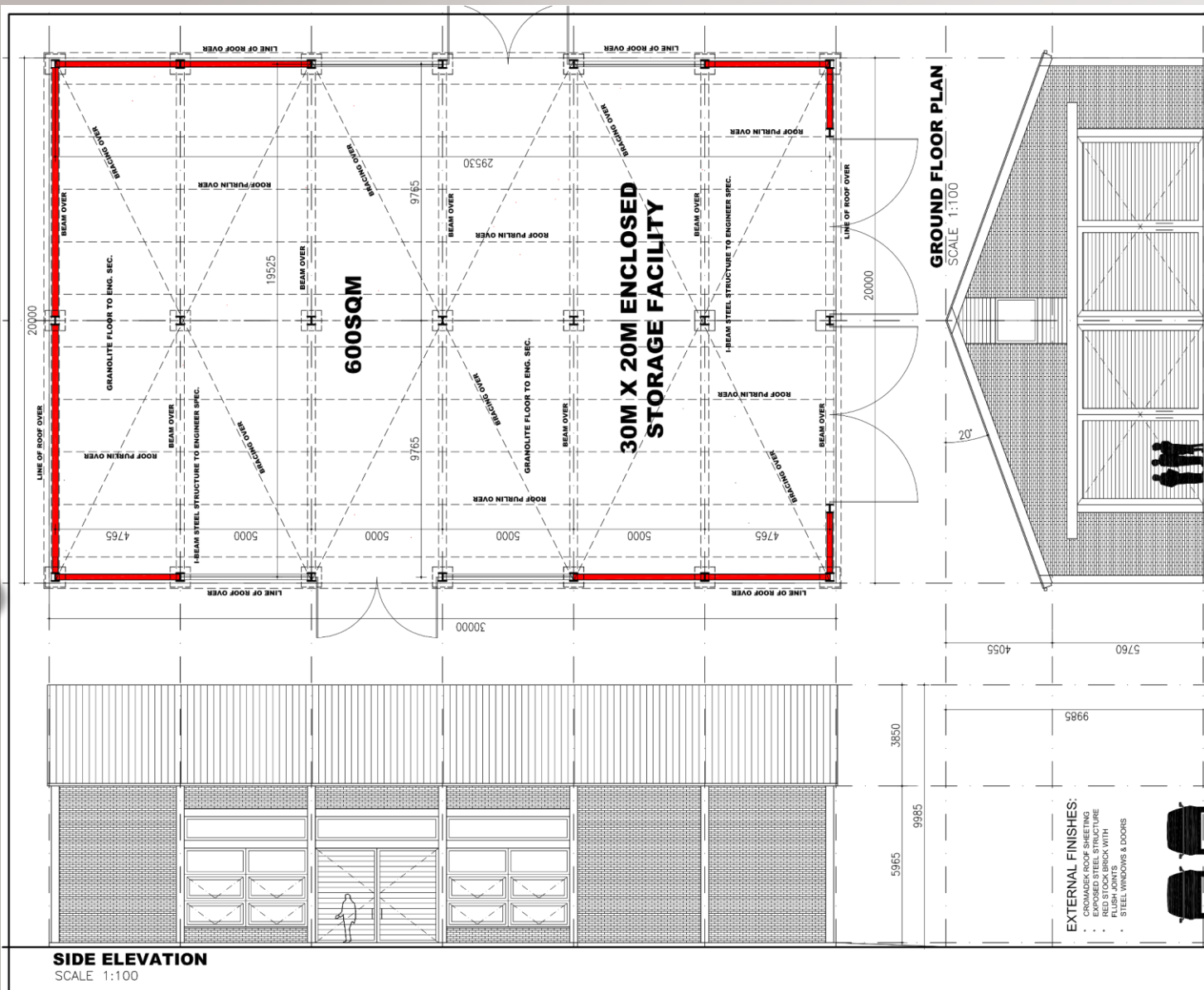
Date: 2020-05-20
Drawing version: 2
Drawing no: 1 of 1
Scale: (Print on A3))

Contact details:
 Name: Mr. van den Berg
 Address: P.O. Box 14956
 Zuurfontein, 1912
 Tel: 078 168 1435
 Email: mader@skels.co.za
 admin@skels.co.za



PROPOSED 30X20m STORE ROOM DRAWINGS – A

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



ENTRANCE ELEVATION

SCALE 1:100

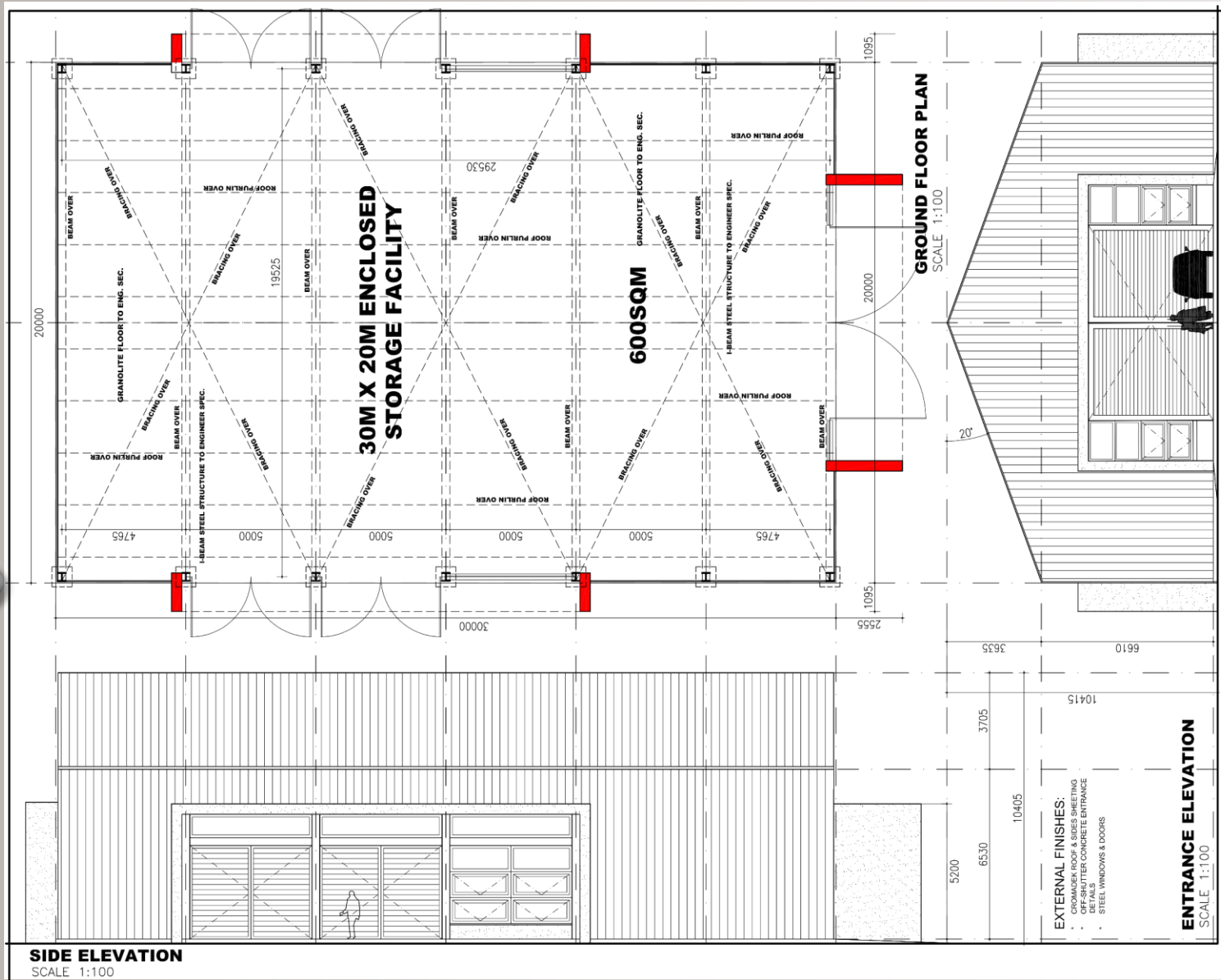
- PROPOSED OPTION A:**
1. 30X20M STEEL STRUCTURE WITH 20 DEGREE PITCH ROOF TO ENG. SPECIFICATION
 2. INTERVALS AT 500MM VERTICAL AND 915MM (CENTRE LINE) HORIZONTAL TO DRAWING
 3. GRANULITE FLOOR FINISH TO ENG. SPECIFICATION
 4. 2X DOUBLE DOORS ON FRONT ELEVATION WITH 1X DOUBLE DOOR & 1X WINDOW ON SIDE ELEVATION TO ENG. SPECIFICATION
 5. EXPOSED STEEL STRUCTURE WITH INFILL BRICK WALLS AND CHROMABEK ROOF

PROPOSED STORAGE FACILITY FOR GOOSEBAY FARM PARYS FREE STATE	
PROJECT NUMBER	GF/SHED/2020/A
PRINT	A2 FOR SCALE 1:100
DATE	22 MAY 2020
PAGE NUMBER	1 OF 4

skes
ARCHITECTS - PLANNING - ENVIRONMENTAL SERVICES

PROPOSED 30X20m STORE ROOM DRAWINGS – B

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS

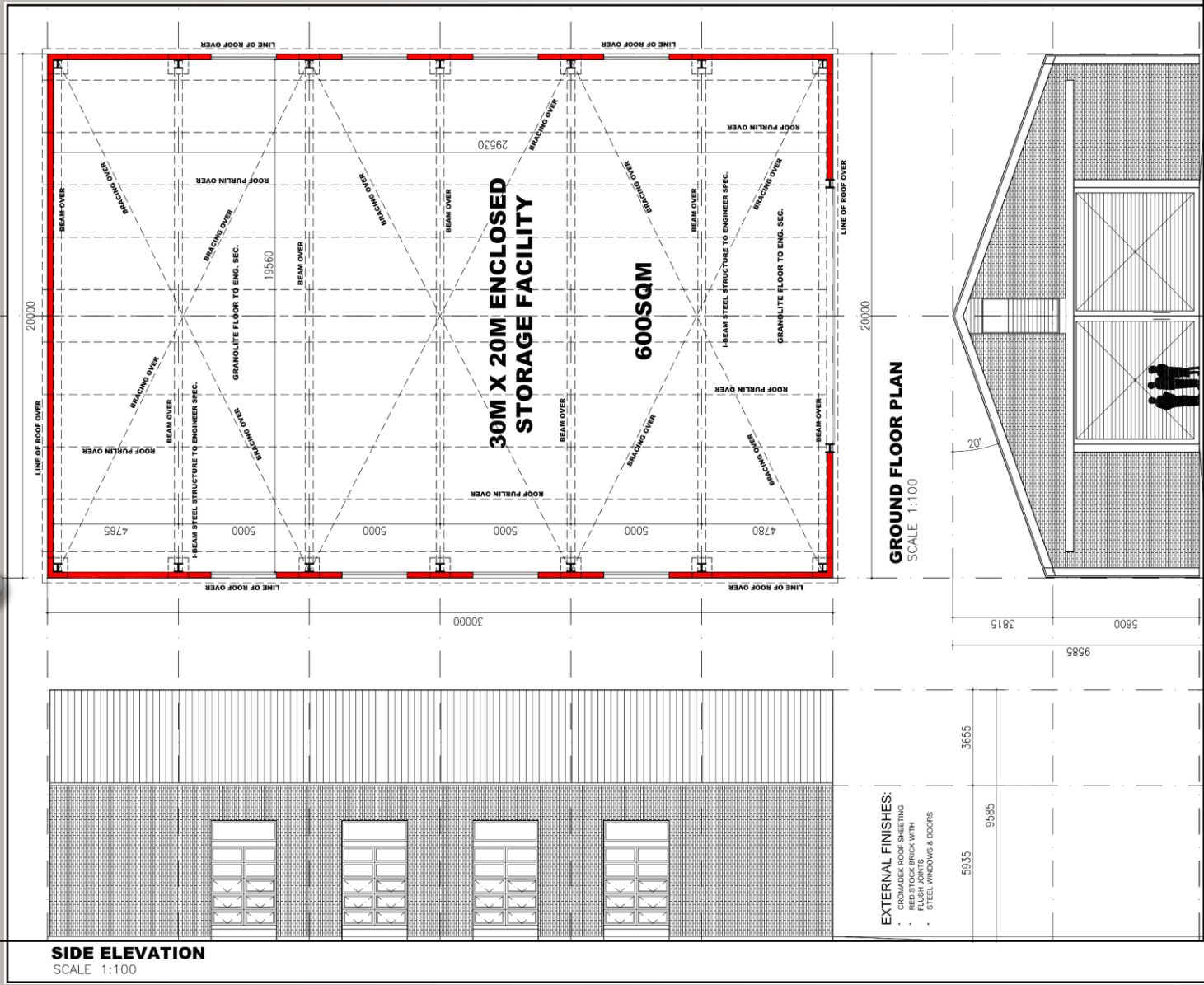


PROPOSED STORAGE FACILITY FOR GOOSEBAY FARM PARYS FREE STATE	
PROJECT NUMBER	IGF/SHED/2020/B
PRINT	A2 FOR SCALE 1:100
DATE	22 MAY 2020
PAGE NUMBER	2 OF 4

- PROPOSED OPTION B:**
1. 30X20M STEEL STRUCTURE WITH 20 DEGREE PITCH ROOF TO ENG. SPECIFICATION
 2. BEAM INTERVALS AT 5000MM VERTICAL TO DRAWING WITH NO BEAM SUPPORT
 3. GRANULITE FLOOR FINISH TO ENG. SPECIFICATION
 4. 1X DOUBLE DOOR ON FRONT ELEVATION WITH INDUSTRIAL STEEL WINDOWS AND 2X DOUBLE DOORS & INDUSTRIAL STEEL WINDOWS ON SIDE ELEVATIONS
 5. OFF SHUTTER CONCRETE ENTRANCE AND SIDE ELEVATION DETAILS
 6. INTERNAL STEEL STRUCTURE WITH CRUMBLER SHEETING

PROPOSED 30X20m STORE ROOM DRAWINGS – C

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



GROUND FLOOR PLAN
SCALE 1:100

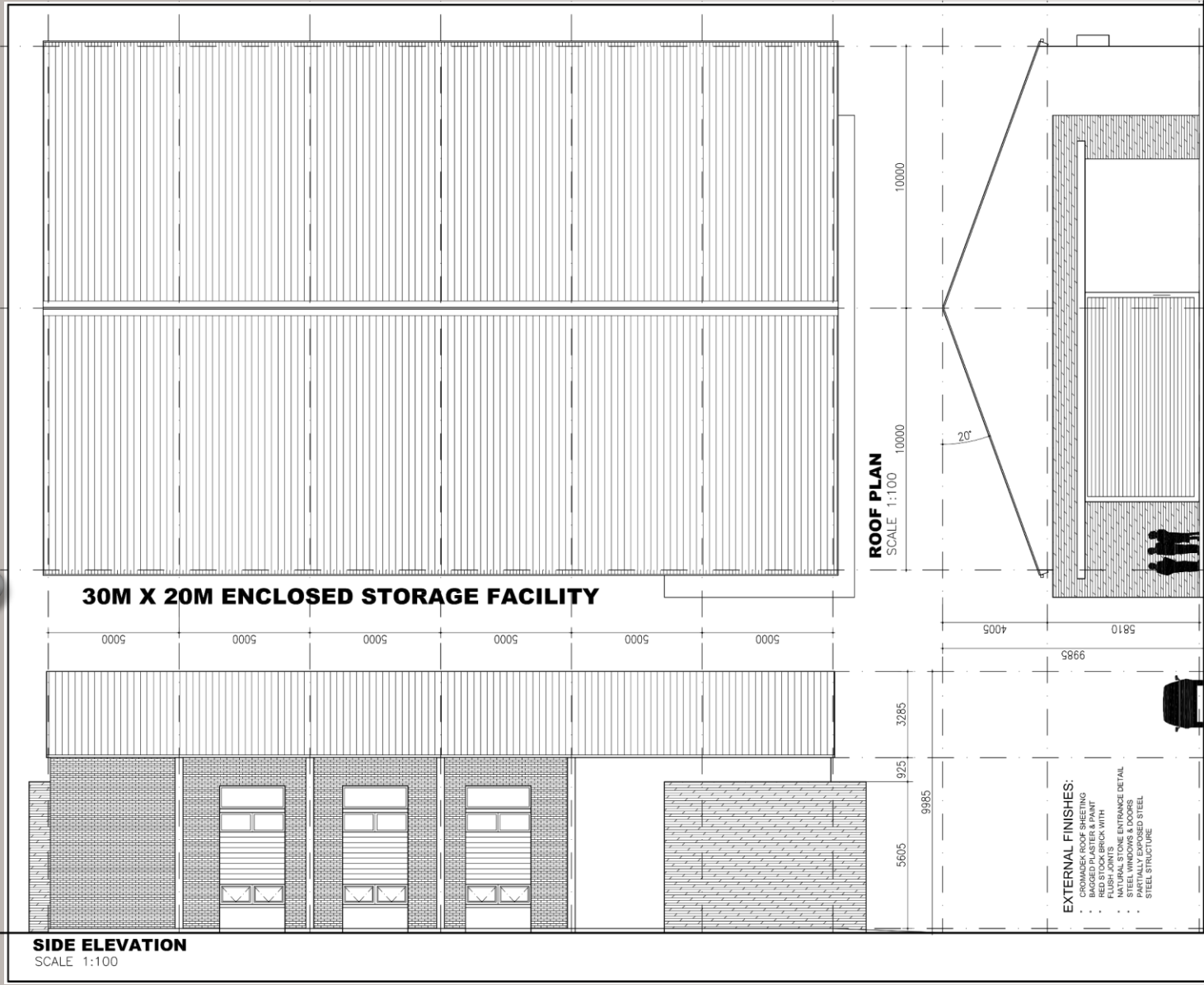
ENTRANCE ELEVATION
SCALE 1:100

PROPOSED STORAGE FACILITY FOR GOOSEBAY FARM PARYS FREE STATE	
PROJECT NUMBER	GF/SHED/2020/C
PRINT	A2 FOR SCALE 1:100
DATE	22 MAY 2020
PAGE NUMBER	3 OF 4

- PROPOSED OPTION C:**
- 300X20MM STEEL STRUCTURE WITH 20 DEGREE PITCH ROOF TO ENG. SPECIFICATION
 - BEAM INTERVALS AT 5000MM VERTICAL TO DRAWING WITH NO I-BEAM SUPPORT COLUMNS IN THE CENTRE
 - 100% BRICK WITH FLUSH JOINTS
 - 1X SLIDING DOUBLE DOOR ON FRONT ELEVATION WITH INDUSTRIAL STEEL WINDOWS ON SIDE ELEVATIONS
 - EXTERNAL BRICKWORK WALLS WITH INTERNAL STEEL STRUCTURE AND CROMADEK ROOF

PROPOSED 30X20m STORE ROOM DRAWINGS – D

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



SIDE ELEVATION
SCALE 1:100

ROOF PLAN
SCALE 1:100

ENTRANCE ELEVATION
SCALE 1:100

- EXTERNAL FINISHES:**
- BRICKWORK
 - BAGGED PLASTER & PAINT
 - RED STOCK BRICK WITH
 - 10mm SPACERS TO
 - MATCH EXISTING ENTRANCE DETAIL
 - STEEL WINDOWS & DOORS
 - PARTIALLY EXPOSED STEEL
 - STEEL STRUCTURE

- PROPOSED OPTION D:**
1. 3000mm STEEL STRUCTURE WITH 20 DEGREE PITCH ROOF TO ENG. SPECIFICATION
 2. BRICKWORK WALLS AT 5000mm VERTICAL TO DRAWING WITH NO BEAM SUPPORT COLUMN IN THE CENTRE
 3. GRANULITE FLOOR FINISH TO ENG. SPECIFICATION
 4. CONCRETE FLOOR ON FRONT ELEVATION WITH INDUSTRIAL STEEL WINDOWS ON SIDE ELEVATIONS
 5. EXTERNAL BRICKWORK WALLS WITH INTERNAL STEEL STRUCTURE (PARTIALLY EXPOSED) AND A NATURAL STONE FEATURE WALL ON FRONT AND SIDE ELEVATION WITH GRANULITE FLOOR

PROPOSED STORAGE FACILITY FOR GOOSEBAY FARM PARYS FREE STATE	
PROJECT NUMBER	GF/SHED/2020/D
PRINT	A2 FOR SCALE 1:100
DATE	22 MAY 2020
PAGE NUMBER	4 OF 4

CONCEPT SHED DESIGNS

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



TITLE:
GOOSEBAY FARM PROPOSED SHED DESIGNS

CLIENT:
VAN WYK LAND DEVELOPMENT CORPORATION (PTY) LTD
GROUP OF COMPANIES

REVISION NO:
0

DRAWING NO:
1 of 1

DATE:
2020/05/25

PREPARED BY:
MR. MADER VAN DEN BERG ON BEHALF
OF SKETS ARCHITECTS AND PLANNING

SCALE:
N/A

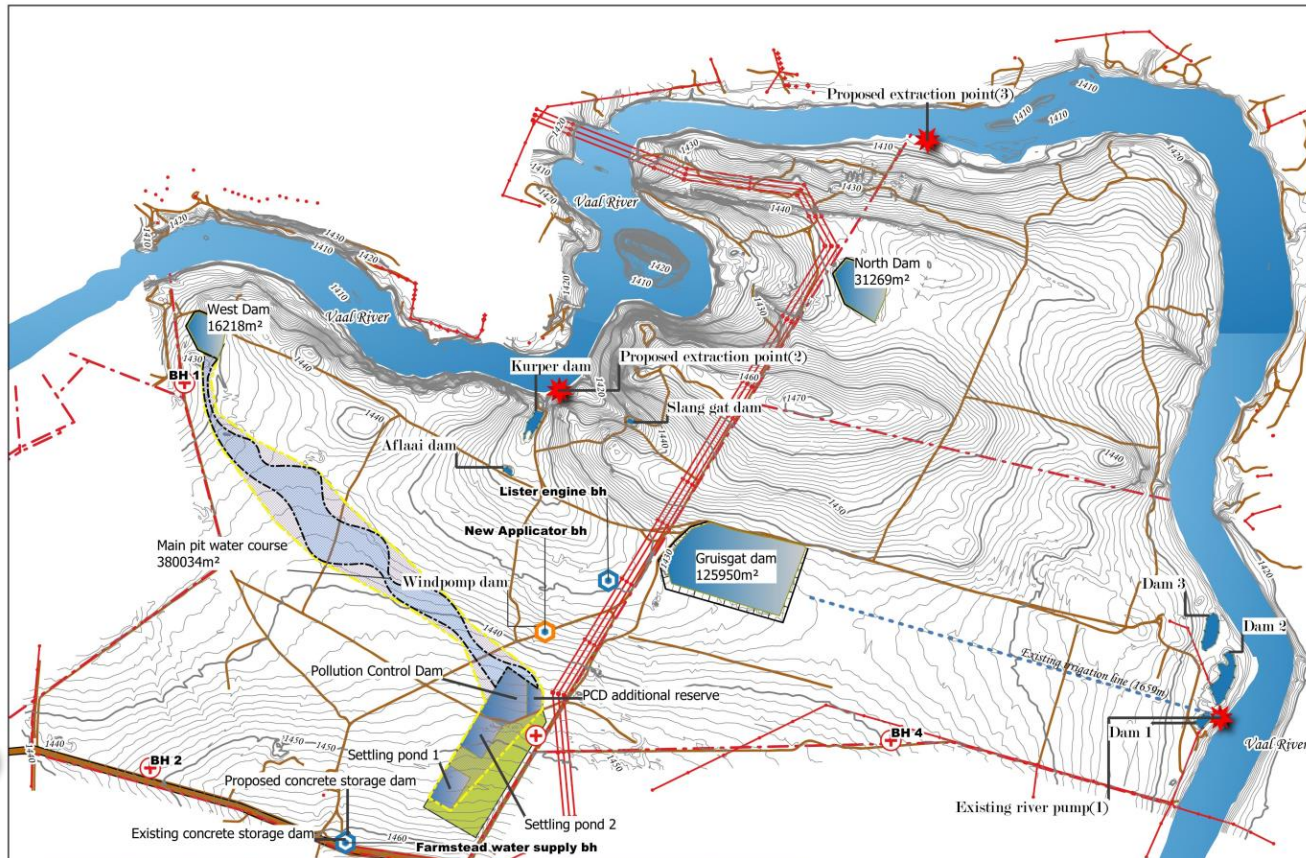
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EXISTING AND PROPOSED DAMS

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
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- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



Legend

Existing and future dams

- Existing dams
- Proposed dams
- Conceptual dam and stream layout
- Main pit proposed water course

Farm information

- ★ River extraction (pump)
- Cadastral information
- Rocky outcrops
- S171 tar road
- Dirt tracks

Processing plant

- Site 1 processing water
- Site 1 plant footprint

CLIENT:
PURE SOURCE MINE

DRAWING TITLE:
Goosebay farm dams and related water features

DESCRIPTION:
Goosebay farm existing and proposed dams

DATE: 2020-08-11 SCALE (A3): 1:15 000

DRAWING NO: 1 of 1 DRAWING VERSION: 6

Projection: WGS 84/UTM 35S

DRAWING PREPARED BY:
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Description	Approximate surface area	Approximate average depth	Approximate dam wall height with 0,5m free board	Approximate volume in m³	Approximate Volume in L	Approximate dimensions	Centroid (WGS 84)	Farm portion	Current Status/ Future use
Existing dams on Goosebay farm									
1 Dam 1	2 311m²	5m	TBC	11 550m³	11 550 000L	60m x 210m	[27 83205, 26 75368]	Remaining Extent of Woodlands 407	Operational
2 Dam 2	36 577m²	2m	TBC	73 154m³	73 154 000L	247m x 83m	[27 83366, 26 79202]	Remaining Extent of Woodlands 407	Operational
3 Dam 3	4 970m²	2m	TBC	9 940m³	9 940 000L	140m x 27m	[27 83319, 26 79202]	Remaining Extent of Woodlands 407	requires report
4 Windpomp dam	263m²	1m	TBC	263m³	263 000L	29m x 37m	[27 82096, 26 79202]	Remaining Extent of Portion 1 of Woodlands 407	requires report
5 Aflaa dam	917m²	1m	TBC	917m³	917 000L	10m x 20m	[27 82575, 26 74136]	Remaining Extent of Portion 1 of Woodlands 407	requires report
6 Kurper dam	4 017m²	2m	TBC	8 034m³	8 034 000L	120m x 65m	[27 82675, 26 74136]	Remaining Extent of Portion 1 of Woodlands 407	Operational
7 Slang gat dam	280m²	2m	TBC	560m³	560 000L	18m x 20m	[27 82096, 26 74136]	Remaining Extent of Portion 1 of Woodlands 407	requires report
8 Pollution control storage dam	40m²	1,20m	N/A	48m³	48 000L	8,5m x 4,5m	[27 82096, 26 74136]	Remaining Extent of Portion 1 of Woodlands 407	requires report
Sub Total	25 874m²			57 811m³	57 811 000L				
Future proposed dams on Goosebay farm									
9 Vaal river dam	126 165m²	8m	8,50m	1 010 166m³	1 010 166 000L	880m x 270m	[27 81385, 26 74883]	Remaining Extent of Woodlands 407	Old borehole pit/Storage facility
10 Vaal dam	36 321m²	5m	5,50m	71 445m³	71 445 000L	370m x 180m	[27 82462, 26 74806]	Remaining Extent of Portion 1 of Woodlands 407	Old borehole pit/Storage facility
11 Settling pond A	15 000m²	3m	TBC	45 000m³	45 000 000L	200m x 100m	[27 82510, 26 74840]	Remaining Extent of Portion 1 of Woodlands 407	Future water plant settling pond
12 Settling pond B	15 000m²	3m	TBC	45 000m³	45 000 000L	200m x 100m	[27 82543, 26 74833]	Remaining Extent of Portion 1 of Woodlands 407	Future water plant settling pond
13 Pollution control dam	200 000m²	3m	TBC	600 000m³	600 000 000L	200m x 200m	[27 82349, 26 74935]	Remaining Extent of Portion 1 of Woodlands 407	Future operations plant/PCD
14 Storage dam	31 400m²	2m	2,50m	62 800m³	62 800 000L	120m x 170m	[27 81646, 26 74863]	Portion 1 of Woodlands 407	Old used dam pit/Storage facility
15 Proposed concrete storage dam	140m²	5m	N/A	700m³	700 000L	20m x 20m	[27 82096, 26 74136]	Remaining Extent of Portion 1 of Woodlands 407	Future storage facility
17 Main pit water course	380 034m²	N/A	N/A	1 145 202m³	1 145 202 000L	1,3m x 200m	[27 82096, 26 74136]	Remaining Extent of Portion 1 of Woodlands 407	Future storage facility
Sub Total	224 865m²			2 442 807m³	2 442 807 000L				
Total	250 739m²			2 499 607m³	2 499 607 000L				

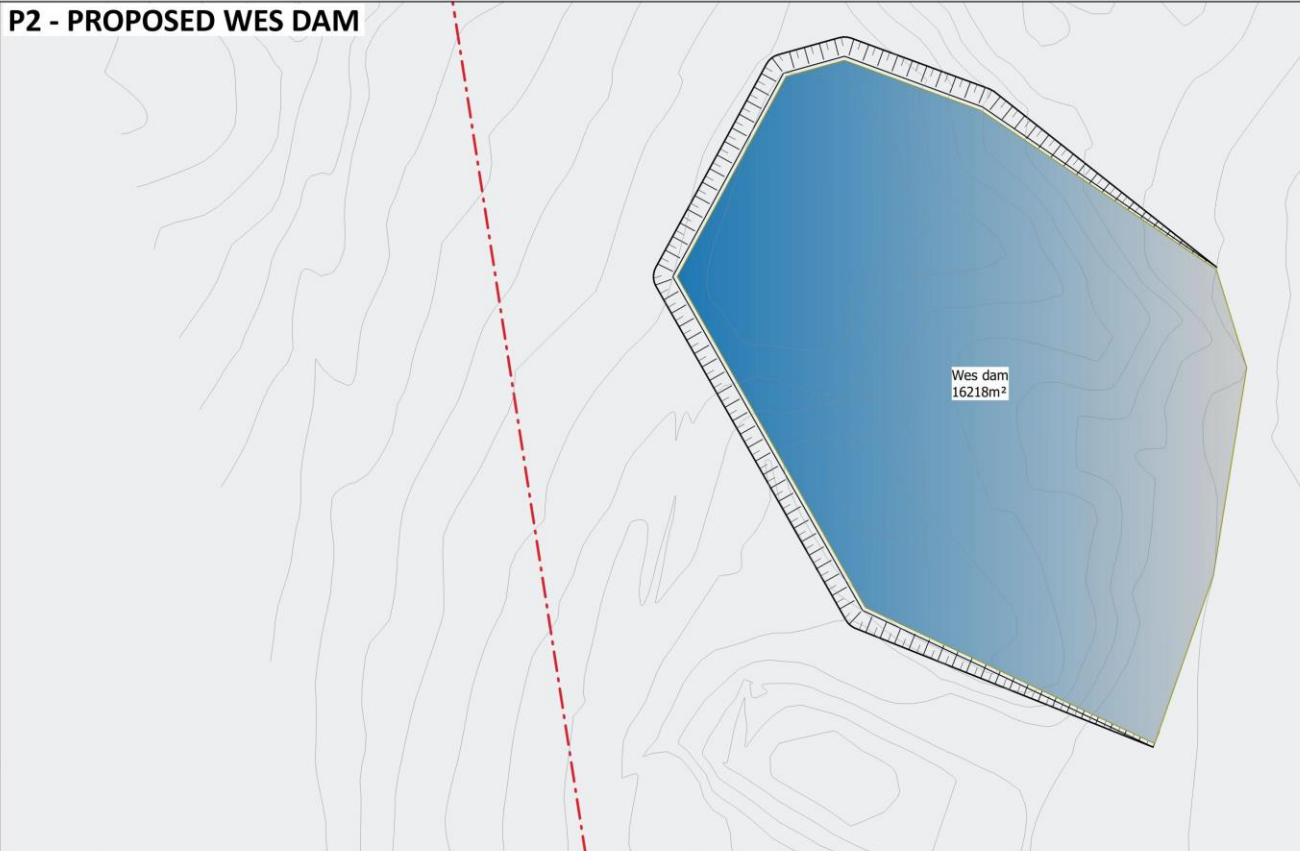
Note:
The main pit water course shall be developed as part of the progressive rehabilitation program. The footprint is located in the area where deepest sand deposits are likely to be found, but final excavation depth will ultimately determine the location, size and depth of the water course. Its conceptual approach is to design a series of dams, connected via stream channels, to contribute to the River Lifestyle Estate's function at the end of life-of-mine.



PROPOSED DAM – WES DAM

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS

P2 - PROPOSED WES DAM



Legend

- - - Farm boundaries
- S171 road
- Vaal River
- Existing dams
- Proposed dams in existing pits

CLIENT:
PURE SOURCE MINE

DRAWING TITLE:
Goosebay farm dams
DESCRIPTION:
Wes dam wall height comparison

DATE: 2020-08-05 SCALE (A3): 1:1 000

DRAWING NO: 2 of 4 DRAWING VERSION: 3

DRAWING PREPARED BY:
MR. HADER VAN DEN BERG
ML(PROF) IN LANDSCAPE ARCHITECTURE

CONTACT DETAILS:
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TEL: +0776 169 1435
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EMAIL: mader@skets.co.za

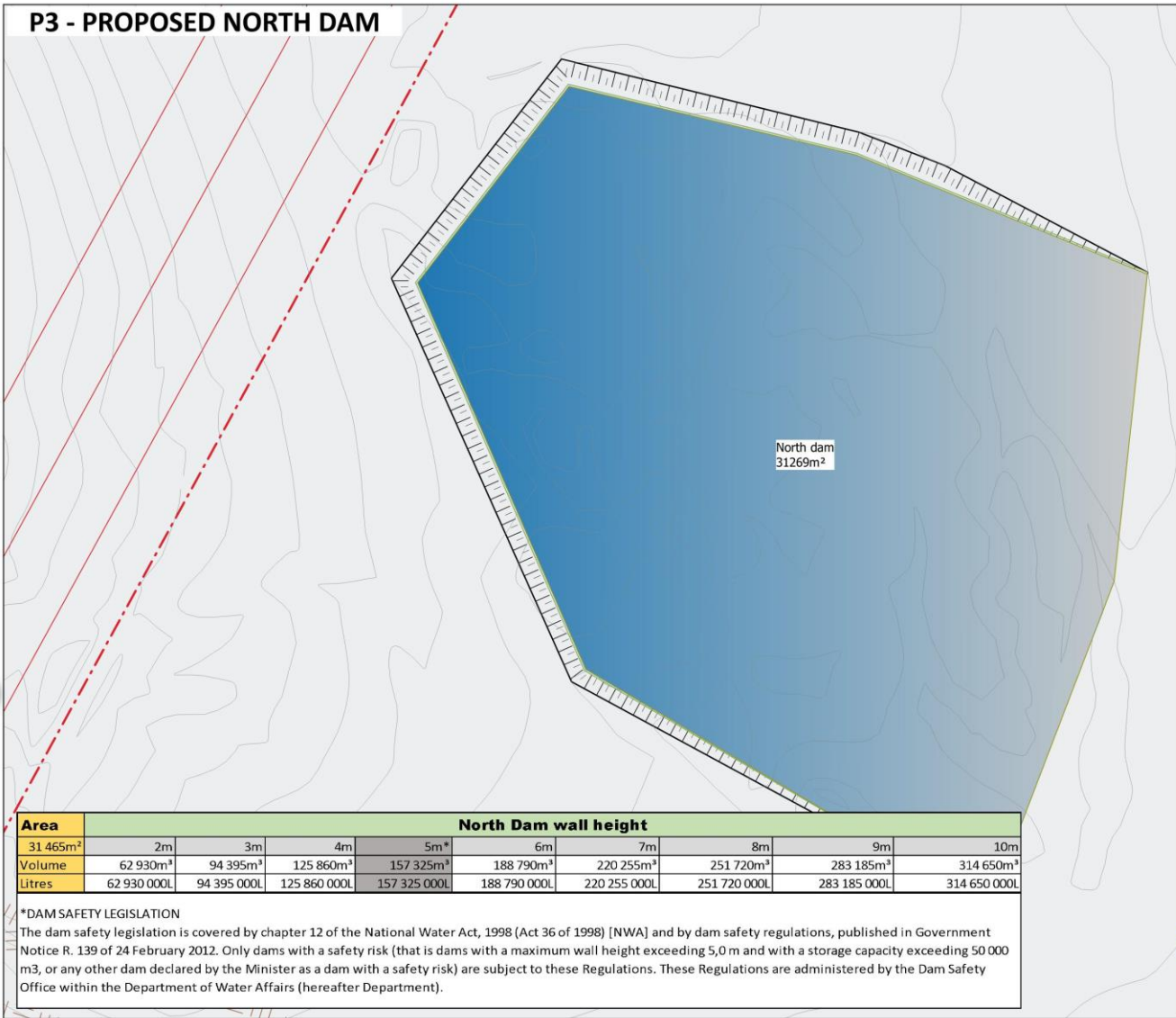


Area	Wes Dam wall height								
	2m	3m	4m	5m*	6m	7m	8m	9m	10m
16 321m ²									
Volume	32 642m ³	48 963m ³	65 284m ³	81 605m ³	97 926m ³	114 247m ³	130 568m ³	146 889m ³	163 210m ³
Litres	32 642 000L	48 963 000L	65 284 000L	81 605 000L	97 926 000L	114 247 000L	130 568 000L	146 889 000L	163 210 000L

***DAM SAFETY LEGISLATION**
The dam safety legislation is covered by chapter 12 of the National Water Act, 1998 (Act 36 of 1998) [NWA] and by dam safety regulations, published in Government Notice R. 139 of 24 February 2012. Only dams with a safety risk (that is dams with a maximum wall height exceeding 5,0m and with a storage capacity exceeding 50 000 m3, or any other dam declared by the Minister as a dam with a safety risk) are subject to these Regulations. These Regulations are administered by the Dam Safety Office within the Department of Water Affairs (hereafter Department).

PROPOSED DAM – NORTH DAM

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



Legend

- - - Farm boundaries
- S171 road
- Vaal River
- Existing dams
- Proposed dams in existing pits

CLIENT:
PURE SOURCE MINE

DRAWING TITLE:
Goosebay farm dams
DESCRIPTION:
North dam wall height comparison

DATE: 2020-08-05 SCALE (A3): 1:1 000

DRAWING NO: 3 of 4 DRAWING VERSION: 3

DRAWING PREPARED BY:
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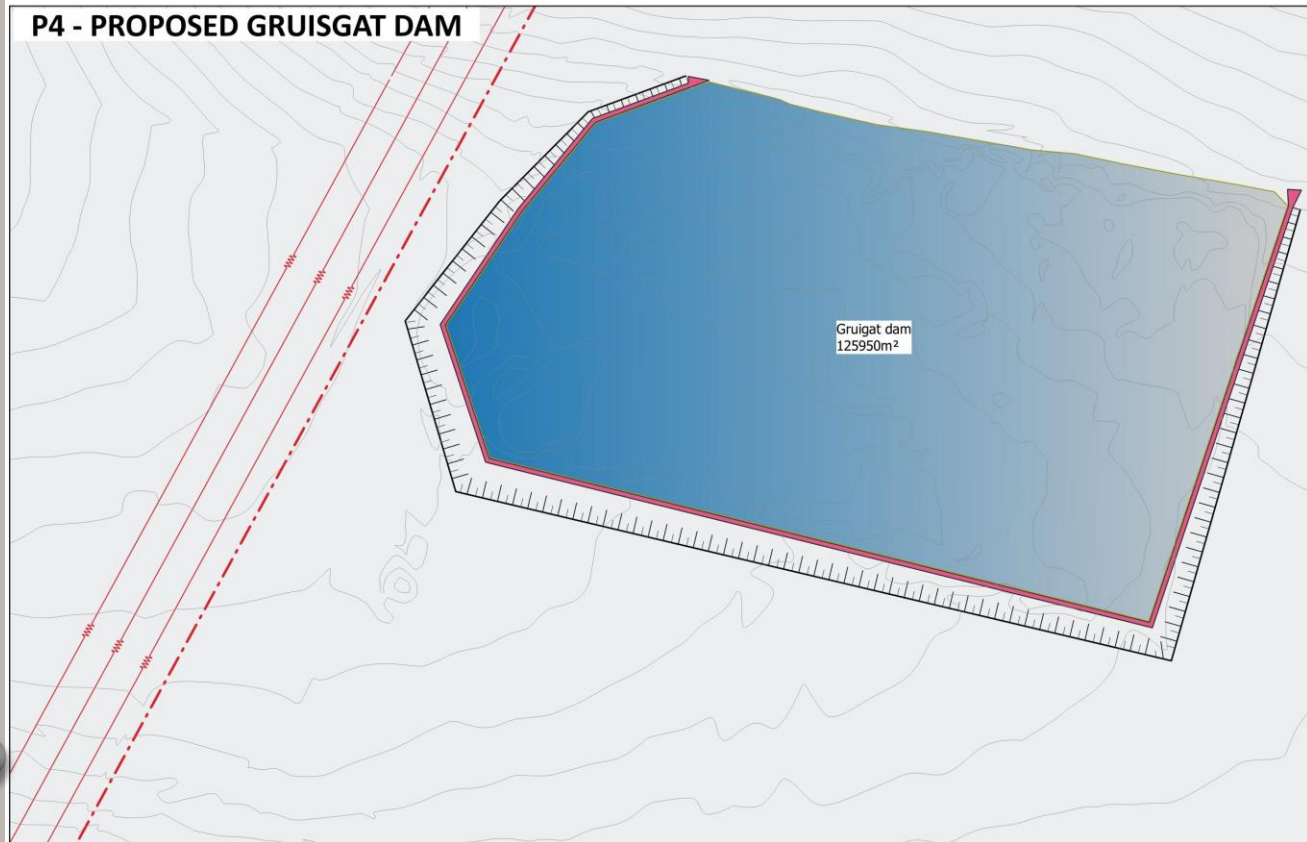
Area	North Dam wall height								
	2m	3m	4m	5m*	6m	7m	8m	9m	10m
31 465m ²									
Volume	62 930m ³	94 395m ³	125 860m ³	157 325m ³	188 790m ³	220 255m ³	251 720m ³	283 185m ³	314 650m ³
Litres	62 930 000L	94 395 000L	125 860 000L	157 325 000L	188 790 000L	220 255 000L	251 720 000L	283 185 000L	314 650 000L

***DAM SAFETY LEGISLATION**
The dam safety legislation is covered by chapter 12 of the National Water Act, 1998 (Act 36 of 1998) [NWA] and by dam safety regulations, published in Government Notice R. 139 of 24 February 2012. Only dams with a safety risk (that is dams with a maximum wall height exceeding 5,0m and with a storage capacity exceeding 50 000 m3, or any other dam declared by the Minister as a dam with a safety risk) are subject to these Regulations. These Regulations are administered by the Dam Safety Office within the Department of Water Affairs (hereafter Department).

PROPOSED DAM – GRUISGAT DAM

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS

P4 - PROPOSED GRUISGAT DAM



Legend

- Farm boundaries
- S171 road
- Vaal River
- Existing dams
- Proposed dams in existing pts

CLIENT:
PURE SOURCE MINE

DRAWING TITLE:
Goosebay farm dams
DESCRIPTION:
Gruisgat dam wall height comparison

DATE: 2020-08-05 SCALE (A3): 1:2 500

DRAWING NO: 4 of 4 DRAWING VERSION: 3

DRAWING PREPARED BY:
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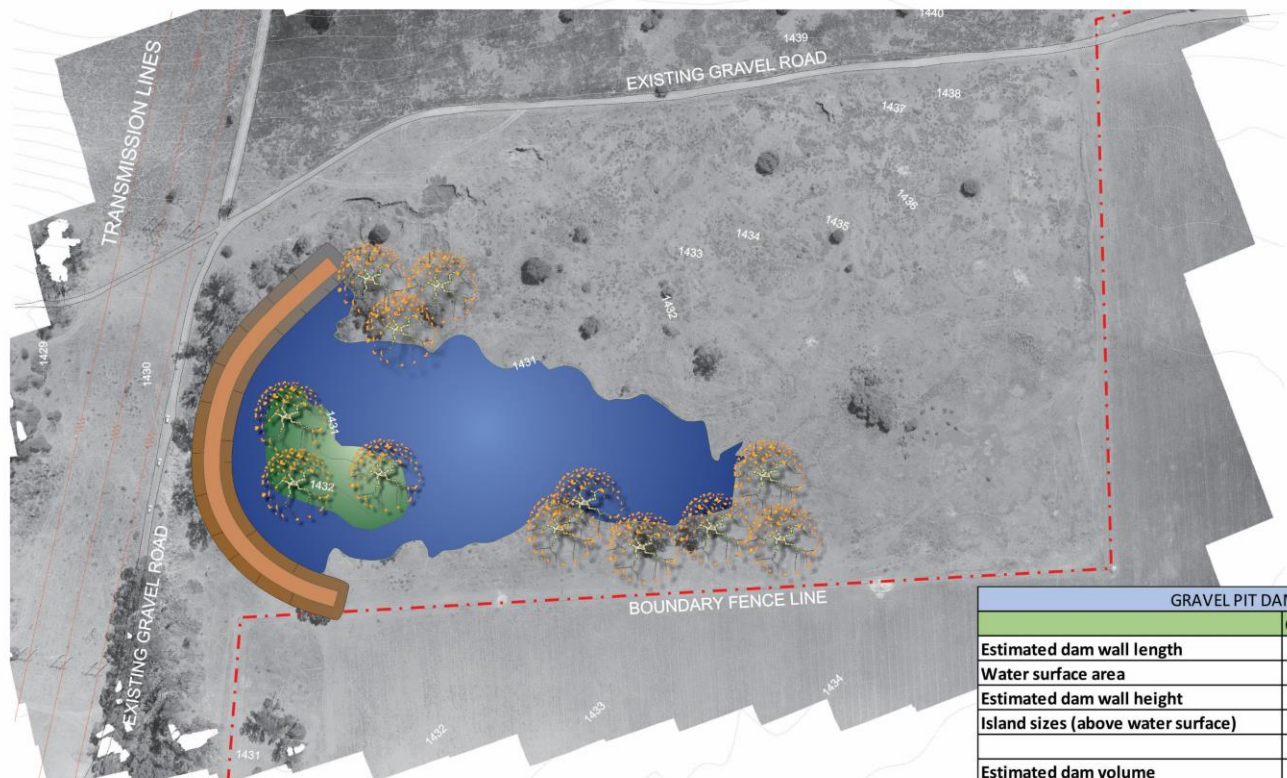
Area	Gruisgat Dam wall height								
	2m	3m	4m	5m*	6m	7m	8m	9m	10m
126 745m ²									
Volume	253 490m ³	380 235m ³	506 980m ³	633 725m ³	760 470m ³	887 215m ³	1 013 960m ³	1 140 705m ³	1 267 450m ³
Litres	253 490 000L	380 235 000L	506 980 000L	633 725 000L	760 470 000L	887 215 000L	1 013 960 000L	1 140 705 000L	1 267 450 000L

***DAM SAFETY LEGISLATION**

The dam safety legislation is covered by chapter 12 of the National Water Act, 1998 (Act 36 of 1998) [NWA] and by dam safety regulations, published in Government Notice R. 139 of 24 February 2012. Only dams with a safety risk (that is dams with a maximum wall height exceeding 5,0 m and with a storage capacity exceeding 50 000 m³, or any other dam declared by the Minister as a dam with a safety risk) are subject to these Regulations. These Regulations are administered by the Dam Safety Office within the Department of Water Affairs (hereafter Department).

PROPOSED DAM – GRUISGAT DAM

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



OPTION A

- WATER SURFACE AREA
- DAM WALL
- BIRD ISLAND

NOTES:

All the drawings in this presentation should be considered as conceptual and is subject to onsite confirmation and engineering design and specifications.

Spillway positioning, dam wall design and specifications to be done by an engineer.

GRAVEL PIT DAM CONVERSION			
	OPTION A	OPTION B	OPTION C
Estimated dam wall length	248m	347m	460m
Water surface area	26,278m ²	43,825m ²	68,367m ²
Estimated dam wall height	>=1m	>=2m	>=3m
Island sizes (above water surface)	4,276m ²	1,328m ²	2,662m ² Island A 1,564m ² Island B
Estimated dam volume	30,990m ³	78,275m ³	154,654m ³

CLIENT:
VAN WYK LAND DEVELOPMENT CORPORATION(PTY)LTD

DRAWING TITLE:
GOOSEBAY CANYON FARM GRAVEL PIT DAM

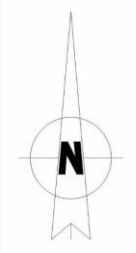
DESCRIPTION:
OPTION A

DATE:
2017/11/27

DRAWING NUMBER:
2 OF 4

SCALE:
NOT TO SCALE

DRAWING REVISION:
1



DRAWING PREPARED BY:
MR. MADER VAN DEN BERG
ML(PROF) IN LANDSCAPE ARCHITECTURE

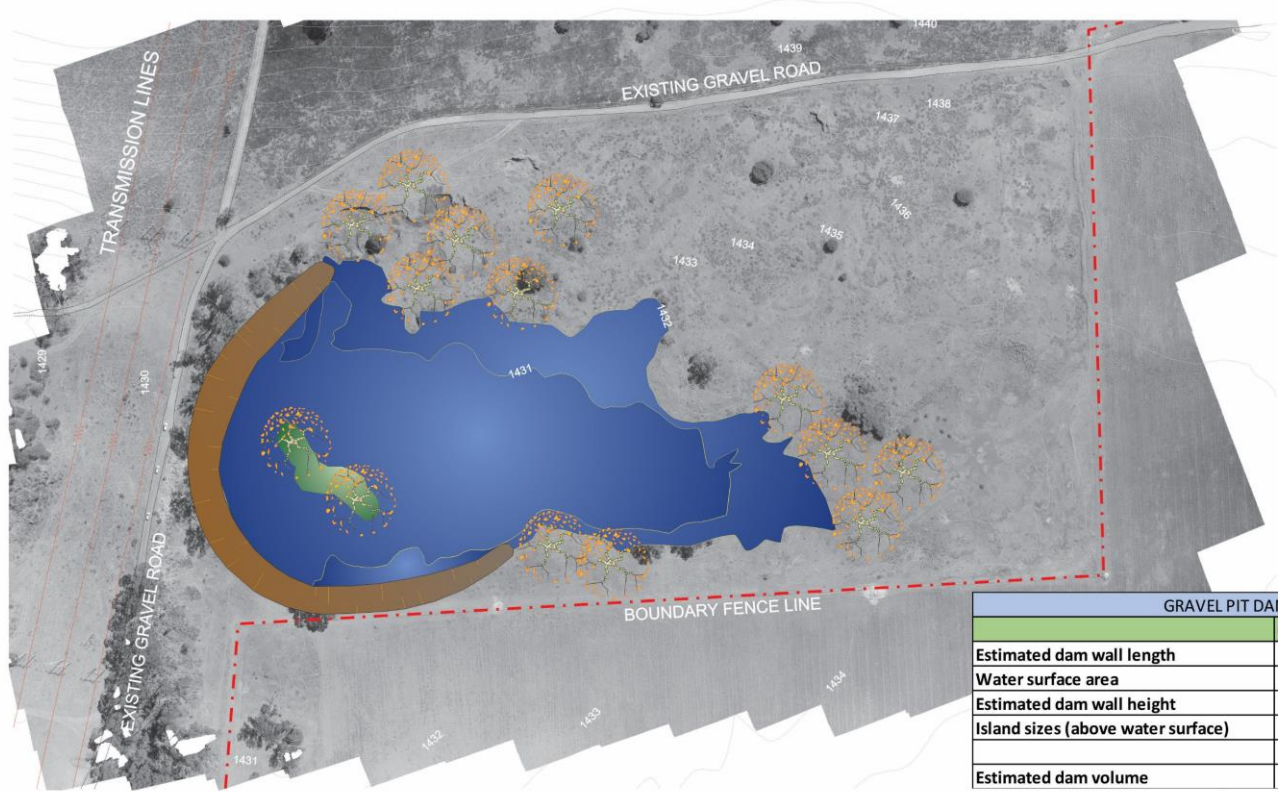
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PROPOSED DAM – GRUISGAT DAM

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



OPTION B

NOTES:

All the drawings in this presentation should be considered as conceptual and is subject to onsite confirmation and engineering design and specifications.

Spillway positioning, dam wall design and specifications to be done by an engineer.

GRAVEL PIT DAM CONVERSION			
	OPTION A	OPTION B	OPTION C
Estimated dam wall length	248m	347m	460m
Water surface area	26,278m ²	43,825m ²	68,367m ²
Estimated dam wall height	>=1m	>=2m	>=3m
Island sizes (above water surface)	4,276m ²	1,328m ²	2,662m ² Island A 1,564m ² Island B
Estimated dam volume	30,990m ³	78,275m ³	154,654m ³

CLIENT:
VAN WYK LAND DEVELOPMENT CORPORATION(PTY)LTD

DRAWING TITLE:
GOOSEBAY CANYON FARM GRAVEL PIT DAM

DESCRIPTION:
OPTION B

DATE:
2017/11/27

DRAWING NUMBER:
3 OF 4

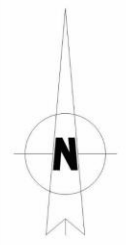
SCALE:
NOT TO SCALE

DRAWING REVISION:
1

DRAWING PREPARED BY:
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ML(PROF) IN LANDSCAPE ARCHITECTURE

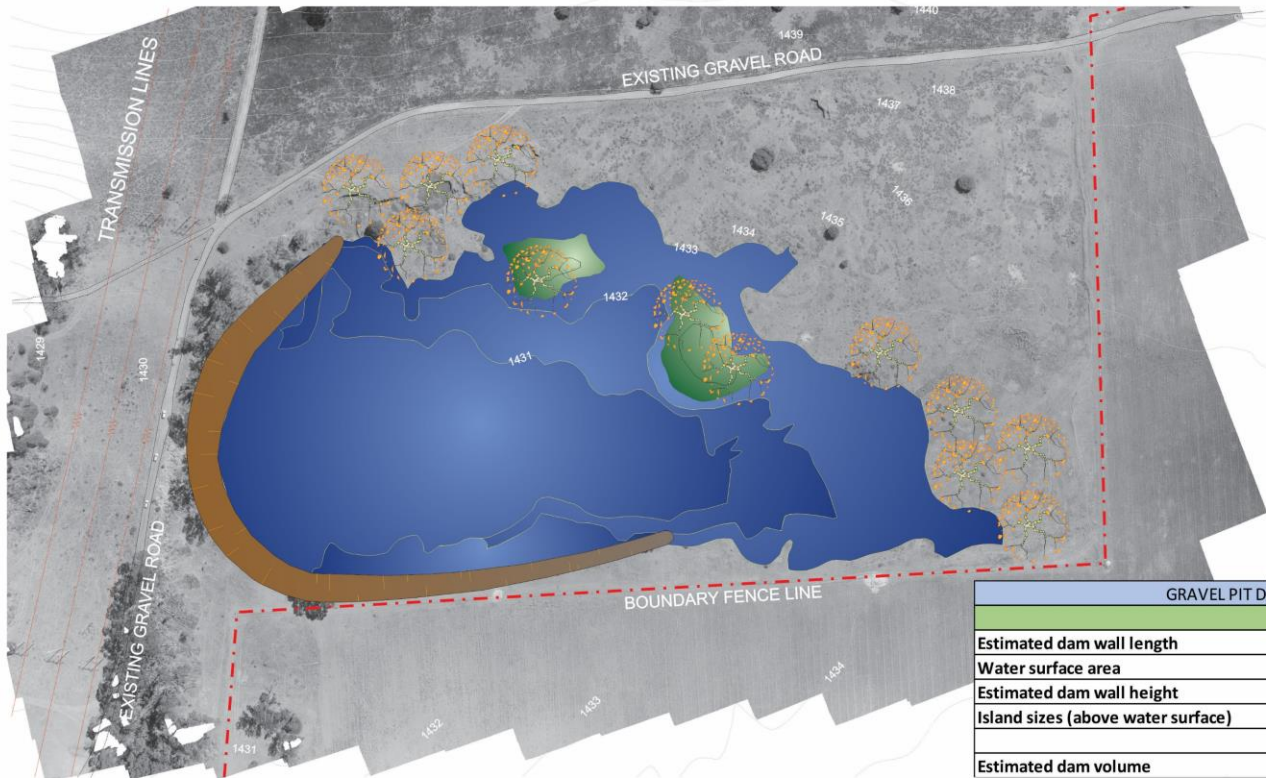
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PROPOSED DAM – GRUISGAT DAM

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



OPTION C

NOTES:

All the drawings in this presentation should be considered as conceptual and is subject to onsite confirmation and engineering design and specifications.

Spillway positioning, dam wall design and specifications to be done by an engineer.

GRAVEL PIT DAM CONVERSION			
	OPTION A	OPTION B	OPTION C
Estimated dam wall length	248m	347m	460m
Water surface area	26,278m ²	43,825m ²	68,367m ²
Estimated dam wall height	>=1m	>=2m	>=3m
Island sizes (above water surface)	4,276m ²	1,328m ²	2,662m ² Island A 1,564m ² Island B
Estimated dam volume	30,990m ³	78,275m ³	154,654m ³

CLIENT:
VAN WYK LAND DEVELOPMENT CORPORATION(PTY)LTD

DRAWING TITLE:
GOOSEBAY CANYON FARM GRAVEL PIT DAM

DESCRIPTION:
OPTION C

DATE:
2017/11/27

DRAWING NUMBER:
4 OF 4

SCALE:
NOT TO SCALE

DRAWING REVISION:
1



DRAWING PREPARED BY:
MR. MADER VAN DEN BERG
ML(PROF) IN LANDSCAPE ARCHITECTURE

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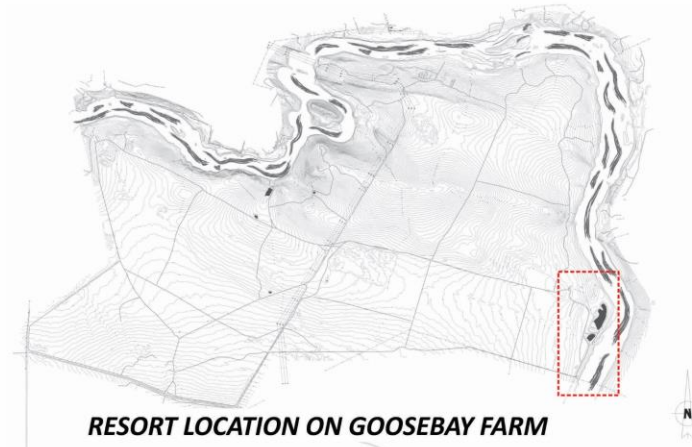
TEL: +2776 169 1435
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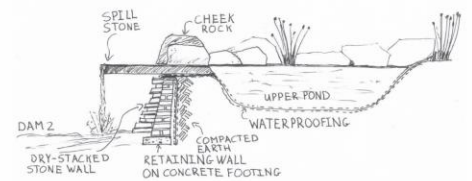
RESORT DAMS RESTORATION

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS

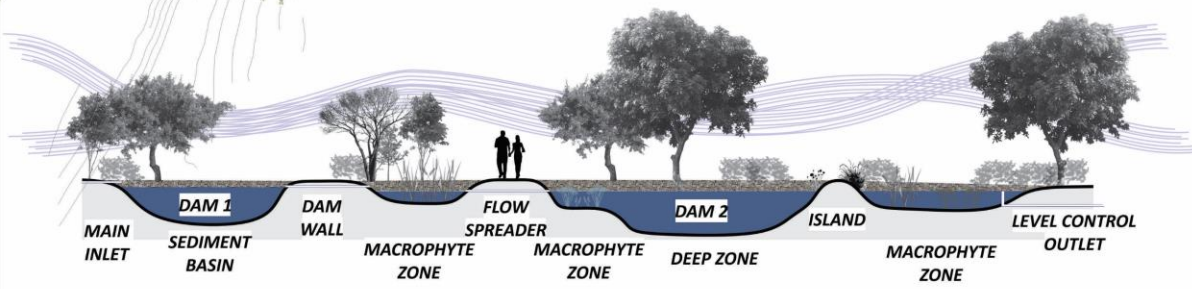
CONCEPTUAL SPATIAL PLAN OF RESORT LAYOUT



RESORT LOCATION ON GOOSEBAY FARM



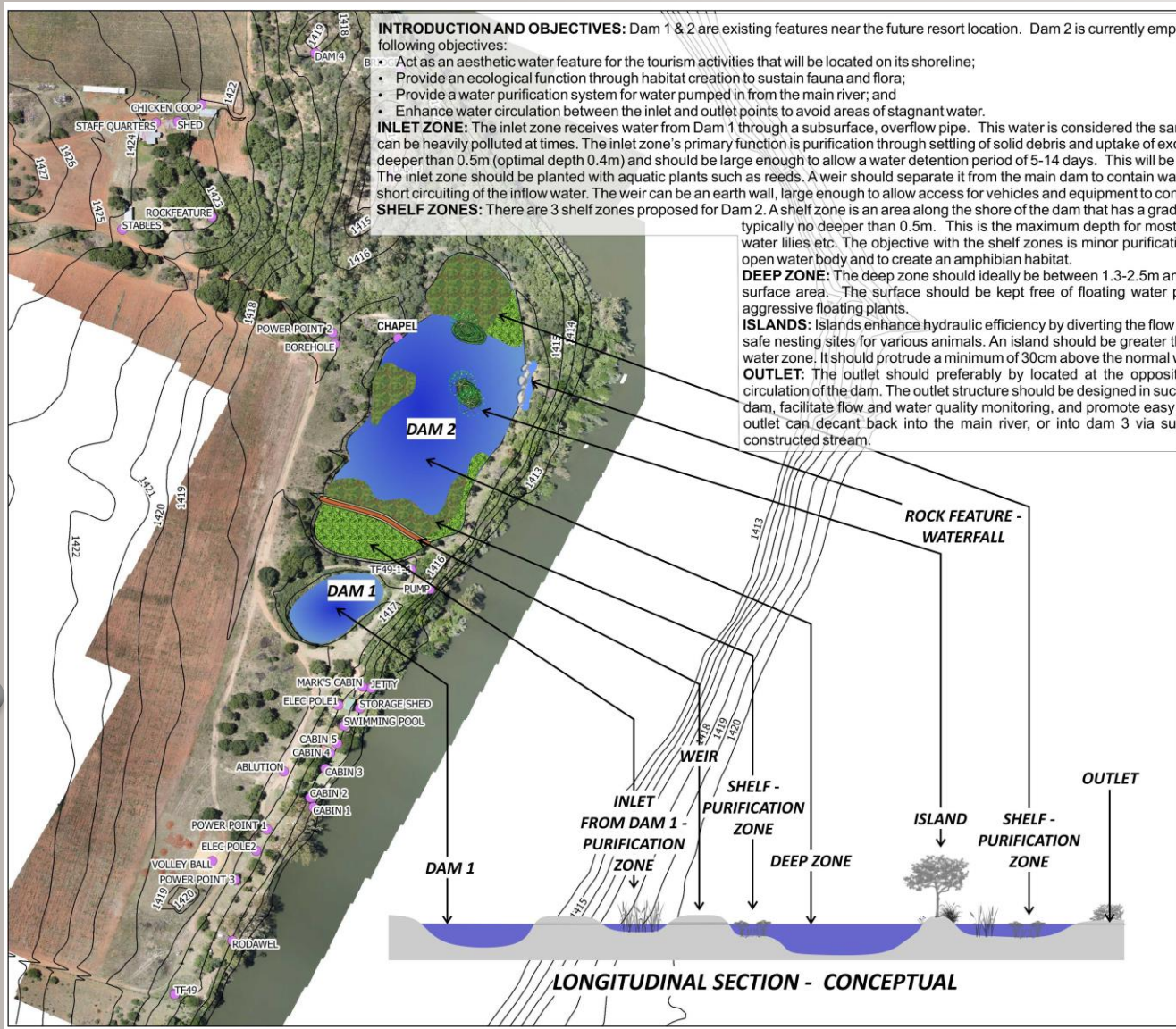
CONCEPTUAL SECTION THROUGH ROCK FEATURE



LONGITUDINAL SECTION THROUGH RECONSTRUCTED DAM AND WETLAND

RESORT DAMS RESTORATION

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
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INTRODUCTION AND OBJECTIVES: Dam 1 & 2 are existing features near the future resort location. Dam 2 is currently empty and requires restoration to achieve the following objectives:

- Act as an aesthetic water feature for the tourism activities that will be located on its shoreline;
- Provide an ecological function through habitat creation to sustain fauna and flora;
- Provide a water purification system for water pumped in from the main river; and
- Enhance water circulation between the inlet and outlet points to avoid areas of stagnant water.

INLET ZONE: The inlet zone receives water from Dam 1 through a subsurface, overflow pipe. This water is considered the same quality as that from the main river and can be heavily polluted at times. The inlet zone's primary function is purification through settling of solid debris and uptake of excessive nutrients. This area should be no deeper than 0.5m (optimal depth 0.4m) and should be large enough to allow a water detention period of 5-14 days. This will be influenced by the inflow rate from Dam 1. The inlet zone should be planted with aquatic plants such as reeds. A weir should separate it from the main dam to contain water for as long as possible and to prevent short circuiting of the inflow water. The weir can be an earth wall, large enough to allow access for vehicles and equipment to conduct periodic maintenance.

SHELF ZONES: There are 3 shelf zones proposed for Dam 2. A shelf zone is an area along the shore of the dam that has a gradual slope towards the deeper zone and is typically no deeper than 0.5m. This is the maximum depth for most small to medium aquatic plants such as water lilies etc. The objective with the shelf zones is minor purification, but more to add visual appeal to the open water body and to create an amphibian habitat.

DEEP ZONE: The deep zone should ideally be between 1.3-2.5m and occupy approximately 2/3 of the dam's surface area. The surface should be kept free of floating water plants such as water hyacinths or other aggressive floating plants.

ISLANDS: Islands enhance hydraulic efficiency by diverting the flow of water through the system and creating safe nesting sites for various animals. An island should be greater than 25m² and preferably within the deep water zone. It should protrude a minimum of 30cm above the normal water level and have gradual side angles.

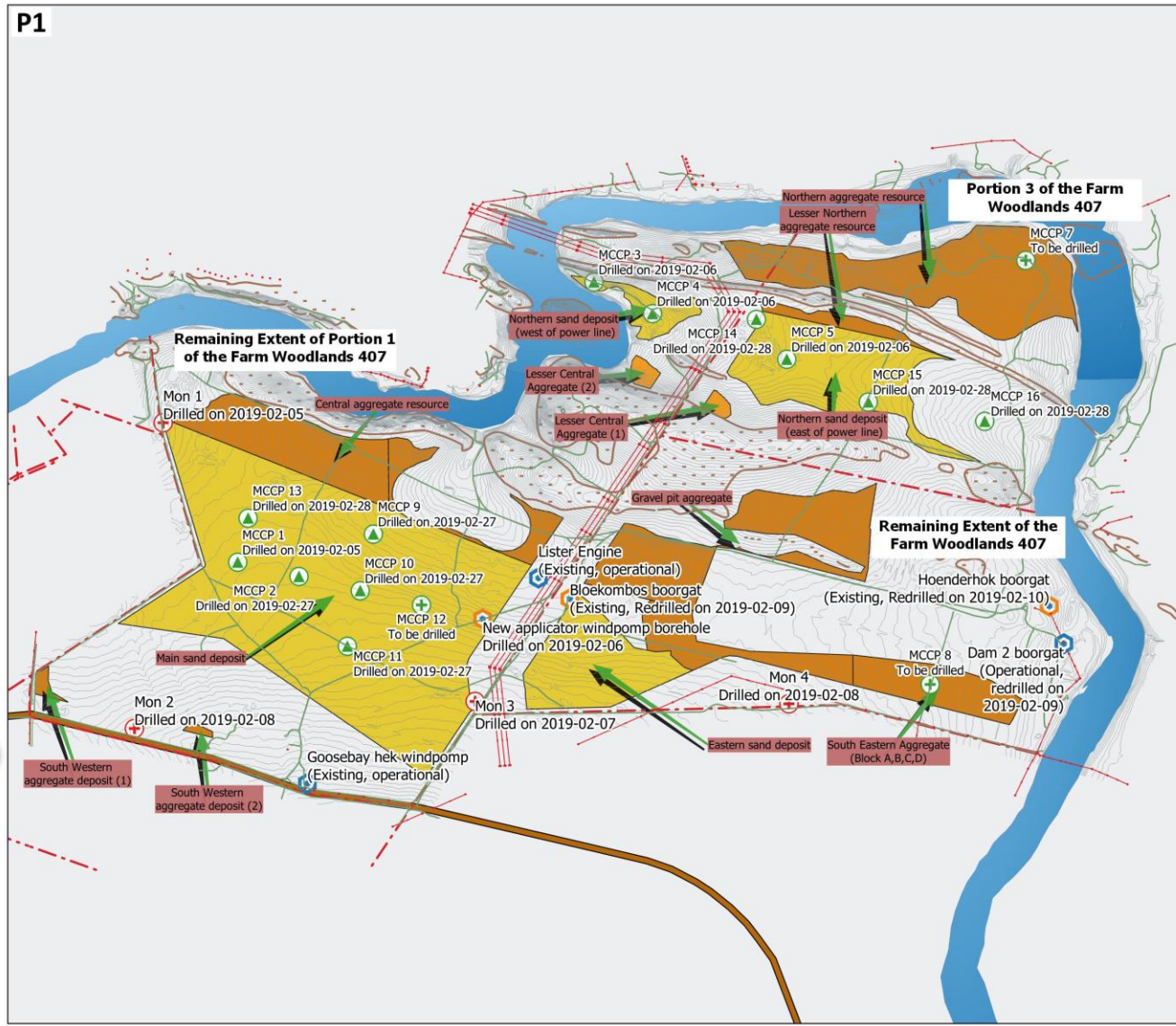
OUTLET: The outlet should preferably be located at the opposite end of the dam to ensure complete circulation of the dam. The outlet structure should be designed in such a way as to control the water level in the dam, facilitate flow and water quality monitoring, and promote easy access for maintenance purposes. The outlet can decant back into the main river, or into dam 3 via subsurface pipes, or surface runoff via a constructed stream.

LONGITUDINAL SECTION - CONCEPTUAL

VAN WYK LAND DEVELOPMENT CORPORATION (PTY) LTD	
DRAWING TITLE: Goosebay Canyon - Resort development	
DESCRIPTION: Restoration of Dam 2	
DATE: 2018-01-19	SCALE: 1:2000 (A3)
DRAWING NO: 1 of 2	DRAWING VERSION: 1
	DRAWING PREPARED BY: MR. MADER VAN DEN BERG ML(Prof) IN LANDSCAPE ARCHITECTURE
	CONTACT DETAILS: P.O. BOX 14956 ZUURFONTEIN 1912
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EXISTING BOREHOLES AND DRILLING POINTS

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



Legend

- Farm boundaries
- S171 road
- Estimated sand deposit
- Estimated aggregate resource
- Rehabilitated boreholes
- Existing and operational boreholes
- Noa Agencies monitoring boreholes
- MCPP boreholes completed

Ref no	Coordinate (WGS 84)	Status
Noa Agencies proposed monitoring boreholes		
1 Mon 1	-25 74202, 27 59114	Drilled on 2019-02-05
2 Mon 2	-25 75328, 27 59387	Drilled on 2019-02-06
3 Mon 3	-25 75453, 27 60590	Drilled on 2019-02-07
4 Mon 4	-25 75443, 27 62074	Drilled on 2019-02-08
Monte Cristo Commercial Park proposed boreholes		
5 MCPP (1)	-25 74817, 27 59643	Drilled on 2019-02-05
6 MCPP (2)	-25 74880, 27 59913	Drilled on 2019-02-27
7 MCPP (3)	-25 73585, 27 61214	Drilled on 2019-02-06
8 MCPP (4)	-25 73725, 27 61472	Drilled on 2019-02-06
9 MCPP (5)	-25 73922, 27 62065	Drilled on 2019-02-06
10 MCPP (6)	-25 74015, 27 62599	Drilled on 2019-02-28
11 MCPP (7)	-25 74885, 27 63139	To be drilled
12 MCPP (8)	-25 75356, 27 63958	To be drilled
13 MCPP (9)	-25 74695, 27 62641	Drilled on 2019-02-27
14 MCPP (10)	-25 74945, 27 62185	Drilled on 2019-02-27
15 MCPP (11)	-25 75188, 27 60126	Drilled on 2019-02-27
16 MCPP (12)	-25 75025, 27 62953	To be drilled
17 MCPP (13)	-25 74566, 27 59688	Drilled on 2019-02-28
18 MCPP (14)	-25 75746, 27 61931	Drilled on 2019-02-28
19 MCPP (15)	-25 74310, 27 62425	Drilled on 2019-02-28
20 MCPP (16)	-25 74796, 27 62039	Drilled on 2019-02-28
Existing boreholes on Goosebay farm		
21 Hoenderhok boorgat	-25 75010, 27 63224	Rehabilitated
22 Dam 2 boorgat	-25 75328, 27 61785	Rehabilitated
23 Bloekompos boorgat	-25 74897, 27 61108	Rehabilitated
24 Lister engine	-25 74885, 27 62089	Operational
25 New applicator windpump	-25 75062, 27 60213	Drilled on 2019-02-06
26 Goosebay hek windpump	-25 75793, 27 59950	Operational

CLIENT:
PURE SOURCE MINE

DRAWING TITLE:
Monitoring other boreholes on Goosebay farm

DESCRIPTION:
All monitoring, existing and newly completed boreholes on Goosebay farm

DATE: 2019-03-04 **SCALE (A3):** 1:12 000

DRAWING NO: 1 of 1 **DRAWING VERSION:** 7

DRAWING PREPARED BY:
MR. MADER VAN DEN BERG
ML(Prof) IN LANDSCAPE ARCHITECTURE

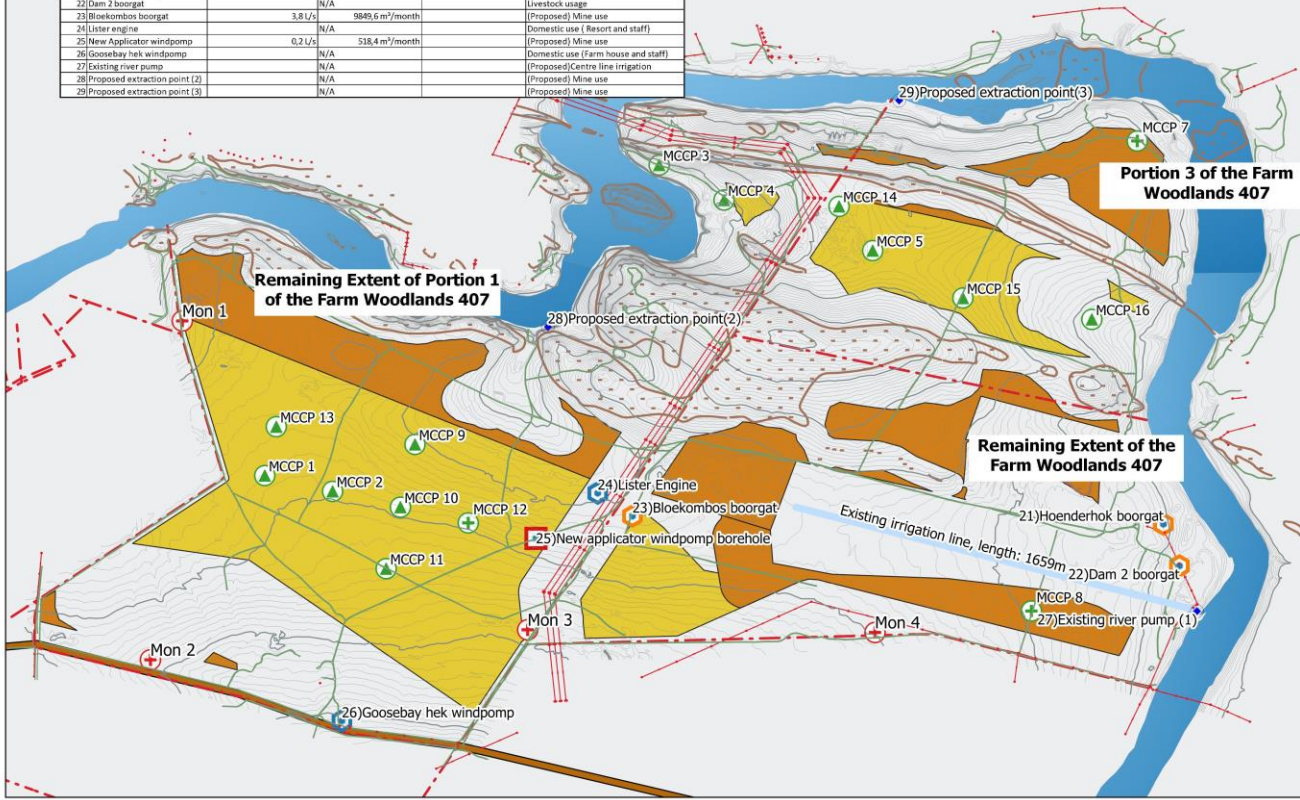
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BOREHOLES AND DRILLING POINTS RESULTS

LOCALITY AND CONTEXT
 GOOSEBAY ECO ESTATE MASTER PLANS
 GOOSEBAY ECO ESTATE LUXURY CABINS
 GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
 GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
 GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPT
 GOOSEBAY ECO ESTATE BUFFALO CAMP
 STOREROOM/SHED
 GOOSEBAY DAMS
 BOREHOLES AND MONITORING POINTS
 AGRICULTURE
 MINING AND REHABILITATION
 TELECOMMUNICATION TOWERS

P1	Ref no	Volumetric output (Abstraction rate)	Permitted abstraction	Status of meter installation	Current or proposed use
Noa Agencies monitoring boreholes					
	1 Mon 1	0,25 L/s	648 m ³ /month		(Proposed) Mine use
	2 Mon 2	0,1 L/s	258,2 m ³ /month		(Proposed) Mine use
	3 Mon 3	N/A			(Proposed) Mine use
	4 Mon 4	0,3 L/s	777,6 m ³ /month		(Proposed) Mine use
Monte Cristo Commercial Park (MCCP) additional boreholes					
	5 MCCP (1)	N/A			No water found
	6 MCCP (2)	N/A			No water found
	7 MCCP (3)	N/A			No water found
	8 MCCP (4)	N/A			No water found
	9 MCCP (5)	N/A			No water found
	10 MCCP (6)	N/A			No water found
	11 MCCP (7)	N/A			No water found
	12 MCCP (8)	N/A			No water found
	13 MCCP (9)	N/A			No water found
	14 MCCP (10)	N/A			No water found
	15 MCCP (11)	N/A			No water found
	16 MCCP (12)	N/A			No water found
	17 MCCP (13)	N/A			No water found
	18 MCCP (14)	N/A			No water found
	19 MCCP (15)	N/A			No water found
	20 MCCP (16)	N/A			No water found
Existing water supply and abstraction points on Goosebay farm					
	21 Hoenderhok boorgat	N/A			Proposed domestic use
	22 Dam 2 boorgat	N/A			Livestock usage
	23 Bloekombos boorgat	3,8 L/s	9849,6 m ³ /month		(Proposed) Mine use
	24 Lister engine	N/A			Domestic use (Resort and staff)
	25 New applicator windpomp	0,2 L/s	518,4 m ³ /month		(Proposed) Mine use
	26 Goosebay hek windpomp	N/A			Domestic use (Farm house and staff)
	27 Existing river pump	N/A			(Proposed) Centre line irrigation
	28 Proposed extraction point (2)	N/A			(Proposed) Mine use
	29 Proposed extraction point (3)	N/A			(Proposed) Mine use



Legend

- Farm boundaries
- S171 road
- Estimated sand deposit
- Estimated aggregate resource
- Rehabilitated boreholes
- Existing and operational boreholes
- Redrilled boreholes
- Noa Agencies monitoring boreholes
- MCCP boreholes completed
- MCCP proposed boreholes
- River extraction point (pump)

Ref no	Coordinate (WGS 84)	Status
Noa Agencies monitoring boreholes		
1 Mon 1	-26.7402, 27.5914	Drilled on 2019-02-05
2 Mon 2	-26.7355, 27.58187	Drilled on 2019-02-06
3 Mon 3	-26.7431, 27.6039	Drilled on 2019-02-07
4 Mon 4	-26.7414, 27.62014	Drilled on 2019-02-08
Monte Cristo Commercial Park (MCCP) additional boreholes		
5 MCCP (1)	-26.7417, 27.5969	Drilled on 2019-02-05
6 MCCP (2)	-26.7489, 27.5911	Drilled on 2019-02-27
7 MCCP (3)	-26.7391, 27.6214	Drilled on 2019-02-06
8 MCCP (4)	-26.7323, 27.62472	Drilled on 2019-02-06
9 MCCP (5)	-26.7392, 27.6006	Drilled on 2019-02-06
10 MCCP (6)	-26.7413, 27.6259	Drilled on 2019-02-28
11 MCCP (7)	-26.7388, 27.6119	Proposed
12 MCCP (8)	-26.7356, 27.6208	Proposed
13 MCCP (9)	-26.7403, 27.6021	Drilled on 2019-02-27
14 MCCP (10)	-26.7493, 27.6181	Drilled on 2019-02-27
15 MCCP (11)	-26.7538, 27.6026	Drilled on 2019-02-27
16 MCCP (12)	-26.7505, 27.6043	Proposed
17 MCCP (13)	-26.7458, 27.5848	Drilled on 2019-02-28
18 MCCP (14)	-26.7396, 27.6191	Drilled on 2019-02-28
19 MCCP (15)	-26.7410, 27.6245	Drilled on 2019-02-28
20 MCCP (16)	-26.7426, 27.6299	Drilled on 2019-02-28
Existing water supply and abstraction points on Goosebay farm		
21 Hoenderhok boorgat	-26.7501, 27.6324	Rehabilitated
22 Dam 2 boorgat	-26.7398, 27.6275	Rehabilitated
23 Bloekombos boorgat	-26.7497, 27.6338	Rehabilitated
24 Lister engine	-26.7488, 27.6069	Operational
25 New applicator windpomp	-26.7387, 27.6272	Rehabilitated on 2019-02-06
26 Goosebay hek windpomp	-26.7393, 27.5950	Operational
27 Existing river pump	-26.7397, 27.6337	Operational
28 Proposed extraction point (2)	-26.7432, 27.6077	Proposed
29 Proposed extraction point (3)	-26.7332, 27.6217	Proposed

CLIENT: **PURE SOURCE MINE**

DRAWING TITLE:
 Monitoring- and other water abstraction points on Goosebay farm
 DESCRIPTION:
 All monitoring, existing and newly drilled boreholes on Goosebay farm

DATE: 2020-07-29 | SCALE (A3): 1:12 000

DRAWING NO: 1 of 2 | DRAWING VERSION: 13
 Projection: WGS 84

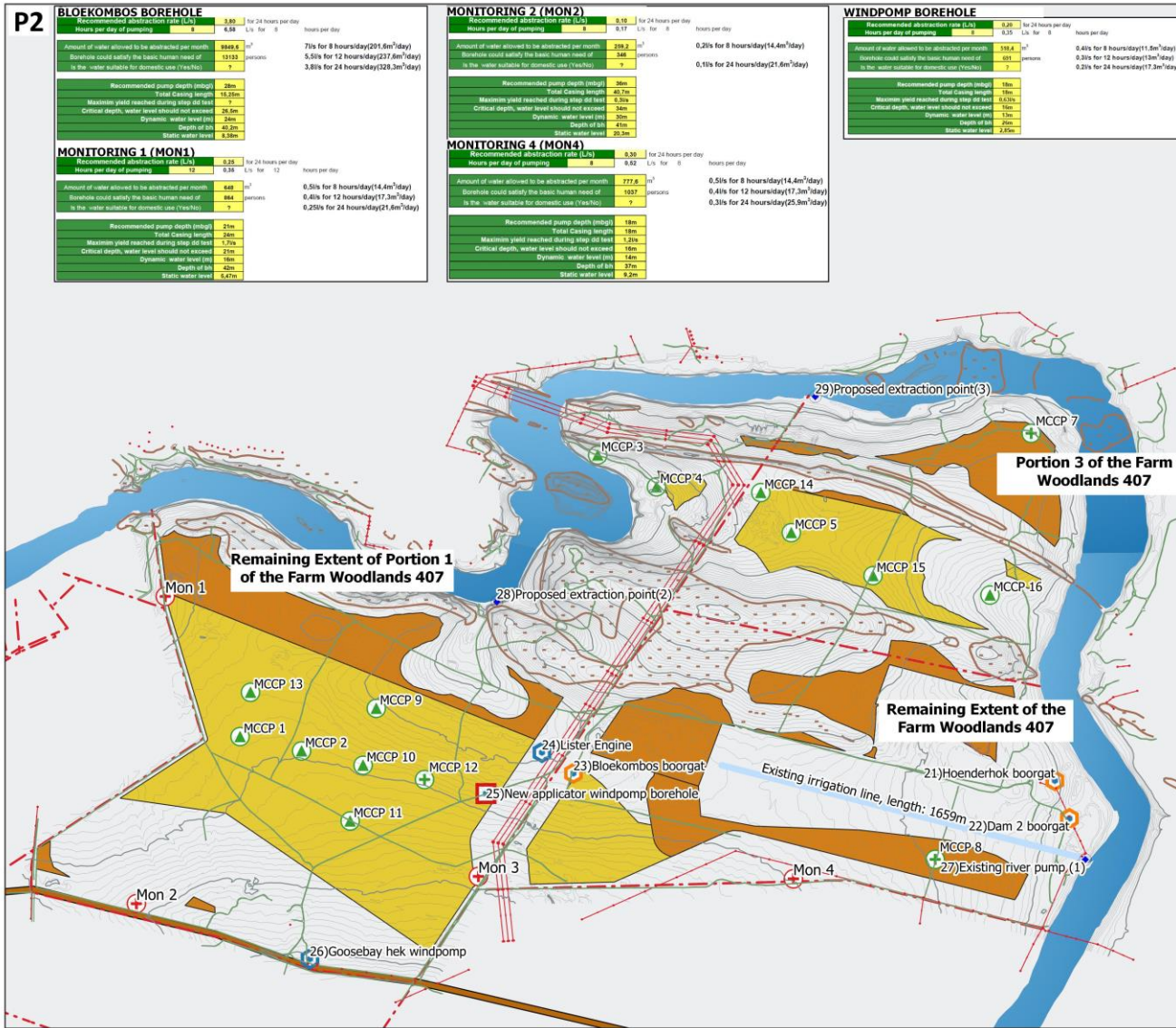
DRAWING PREPARED BY:
 MR. MADER VAN DEN BERG
 ML(PROF) IN LANDSCAPE ARCHITECTURE

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BOREHOLES AND DRILLING POINTS DATA SHEETS

LOCALITY AND CONTEXT
 GOOSEBAY ECO ESTATE MASTER PLANS
 GOOSEBAY ECO ESTATE LUXURY CABINS
 GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
 GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
 GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPT
 GOOSEBAY ECO ESTATE BUFFALO CAMP
 STOREROOM/SHED
 GOOSEBAY DAMS
 BOREHOLES AND MONITORING POINTS
 AGRICULTURE
 MINING AND REHABILITATION
 TELECOMMUNICATION TOWERS



Legend

- Farm boundaries
- S171 road
- Estimated sand deposit
- Estimated aggregate resource
- Rehabilitated boreholes
- Existing and operational boreholes
- Redrilled boreholes
- Noa Agencies monitoring boreholes
- MCCP boreholes completed
- MCCP proposed boreholes
- Existing river extraction pump

Ref no	Coordinate (WGS 84)	Status
Noa Agencies monitoring boreholes		
Mon 1	26.7402, 27.5914	Delisted on 2019-02-05
Mon 2	26.7550, 27.5937	Delisted on 2019-02-06
Mon 3	26.7543, 27.6059	Delisted on 2019-02-07
Mon 4	26.7541, 27.6204	Delisted on 2019-02-08
Monte Cristo Commercial Park (MCCP) additional boreholes		
MCCP (1)	26.7412, 27.5949	Delisted on 2019-02-05
MCCP (2)	26.7489, 27.5913	Delisted on 2019-02-07
MCCP (3)	26.7348, 27.6124	Delisted on 2019-02-06
MCCP (4)	26.7320, 27.6172	Delisted on 2019-02-06
MCCP (5)	26.7322, 27.6266	Delisted on 2019-02-06
MCCP (6)	26.7403, 27.6259	Delisted on 2019-02-28
MCCP (7)	26.7486, 27.6119	Proposed
MCCP (8)	26.7536, 27.6268	Proposed
MCCP (9)	26.7469, 27.6041	Delisted on 2019-02-27
MCCP (10)	26.7493, 27.6181	Delisted on 2019-02-27
MCCP (11)	26.7588, 27.6018	Delisted on 2019-02-27
MCCP (12)	26.7406, 27.6063	Proposed
MCCP (13)	26.7468, 27.6089	Delisted on 2019-02-27
MCCP (14)	26.7346, 27.6191	Delisted on 2019-02-28
MCCP (15)	26.7410, 27.6245	Delisted on 2019-02-28
MCCP (16)	26.7476, 27.6239	Delisted on 2019-02-28
Existing water supply and abstraction points on Goosebay farm		
21-Hoenderhok boorgat	26.75010, 27.61274	Rehabilitated
22-Dam boorgat	26.73168, 27.61795	Rehabilitated
23-Bloekombos boorgat	26.7497, 27.61108	Rehabilitated
24>Lister engine	26.7488, 27.60969	Operational
25-New applicator windpomp	26.75067, 27.60723	Redrilled on 2019-02-06
26-Goosebay hek windpomp	26.75765, 27.59960	Operational
27-Existing river pump	26.7357, 27.61937	Operational
28-Proposed extraction point (1)	26.7432, 27.60777	Proposed
29-Proposed extraction point (2)	26.7332, 27.62171	Proposed
29-Proposed extraction point (3)	26.7402, 27.5914	Proposed

CLIENT: PURE SOURCE MINE

DRAWING TITLE: Monitoring- and other water abstraction points on Goosebay farm
DESCRIPTION: Borehole result summary

DATE: 2020-07-29 **SCALE (A3):** 1:12 000

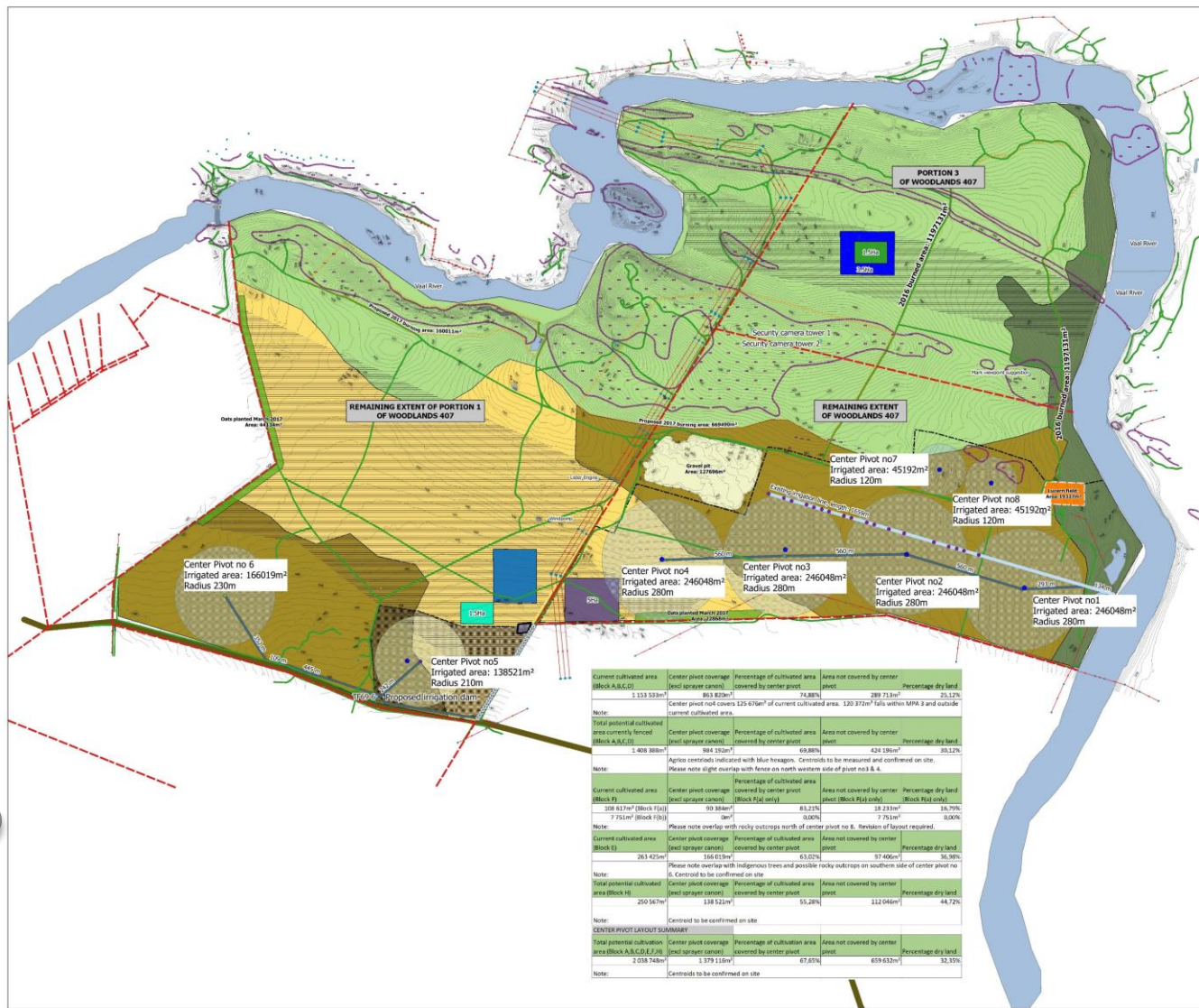
DRAWING NO: 2 of 2 **DRAWING VERSION:** 13
 Projection: WGS 84

DRAWING PREPARED BY: MR. MADER VAN DEN BERG
 ML(PROF) IN LANDSCAPE ARCHITECTURE

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PROPOSED CENTRE PIVOT LAYOUT (2017)

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



- Legend**
- Goosebay Canyon Farm**
- 2017 burning area
 - Proposed irrigation line: 2017_08_29
 - Existing irrigation line
 - Goosebay slopes
 - Goosebay cadastral info
 - Goosebay tracks
 - Goosebay tracks
 - 2ha Lucern field
 - 2016 burned area polygon
 - 2016 burned area
 - Goosebay Gravel pit
- Goosebay Canyon Farm - Agriculture**
- Fence line Block ABCD & F 2017_10_09
 - Center Pivot Points Agric
 - Center Pivot Irrigation line
 - Haver March 2017
 - Cultivated area 2016-2017 Block ABCD & F
- Soil types**
- Rock outcrops
 - Oakleaf Soil
 - Hutton Soil
 - Clovelly Soil

Current cultivated area (Block A,B,C,D)	Center pivot coverage (total sprayer canon)	Percentage of cultivated area covered by center pivot	Area not covered by center pivot	Percentage dry land
1 155 539m ²	893 827m ²	77.48%	261 712m ²	22.52%
Note:	Center pivot not covers 125 679m ² of current cultivated area. 120 372m ² falls within MPA 3 and outside current cultivated area.			
Total potential cultivated area currently fenced (Block A,B,C,D)	Center pivot coverage (total sprayer canon)	Percentage of cultivated area covered by center pivot	Area not covered by center pivot	Percentage dry land
1 405 388m ²	984 252m ²	69.98%	421 136m ²	30.02%
Note:	Agrios centroids indicated with blue hexagons. Centroids to be measured and confirmed on site. Please note slight overlap with fence on north western side of pivot no 4 & 6.			
Current cultivated area (Block F)	Center pivot coverage (total sprayer canon)	Percentage of cultivated area covered by center pivot (Block F) only	Area not covered by center pivot (Block F) only	Percentage dry land (Block F) only
108 617m ² (Block F1B)	93 368m ²	85.21%	15 249m ²	14.79%
7 751m ² (Block F1B)	7 751m ²	100%	0m ²	0%
Note:	Phase note overlap with rocky outcrops north of center pivot no 8. Revision of layout required.			
Current cultivated area (Block E)	Center pivot coverage (total sprayer canon)	Percentage of cultivated area covered by center pivot	Area not covered by center pivot	Percentage dry land
263 425m ²	166 613m ²	63.25%	96 812m ²	36.75%
Note:	Please note overlap with indigenous trees and possible rocky outcrops on southern side of center pivot no 6. Centroids to be confirmed on site.			
Total potential cultivated area (Block E)	Center pivot coverage (total sprayer canon)	Percentage of cultivated area covered by center pivot	Area not covered by center pivot	Percentage dry land
250 567m ²	138 522m ²	55.28%	112 045m ²	44.72%
Note:	Centroids to be confirmed on site.			
CENTER PIVOT LAYOUT SUMMARY				
Total potential cultivation area (Block A,B,C,D,E,F)	Center pivot coverage (total sprayer canon)	Percentage of cultivation area covered by center pivot	Area not covered by center pivot	Percentage dry land
2 058 748m ²	1 379 116m ²	67.05%	679 632m ²	32.95%
Note:	Centroids to be confirmed on site.			

CLIENT: **VAN WYK LAND DEVELOPMENT CORPORATION (PTY) LTD**

DRAWING TITLE: **GOOSEBAY CANYON FARM AGRICULTURAL BASE MAP**

DESCRIPTION: **SUMMARY OF CENTER PIVOT LAYOUT FOR GOOSEBAY CANYON FARM**

DATE: 2017-10-12

SCALE: 1:8 000

DRAWING NO: 3

DRAWING VERSION: 1 OF 1

DRAWING PREPARED BY: **MR. HENRI VAN DER BEEK**
 ARCHITECT IN LANDSCAPE ARCHITECTURE

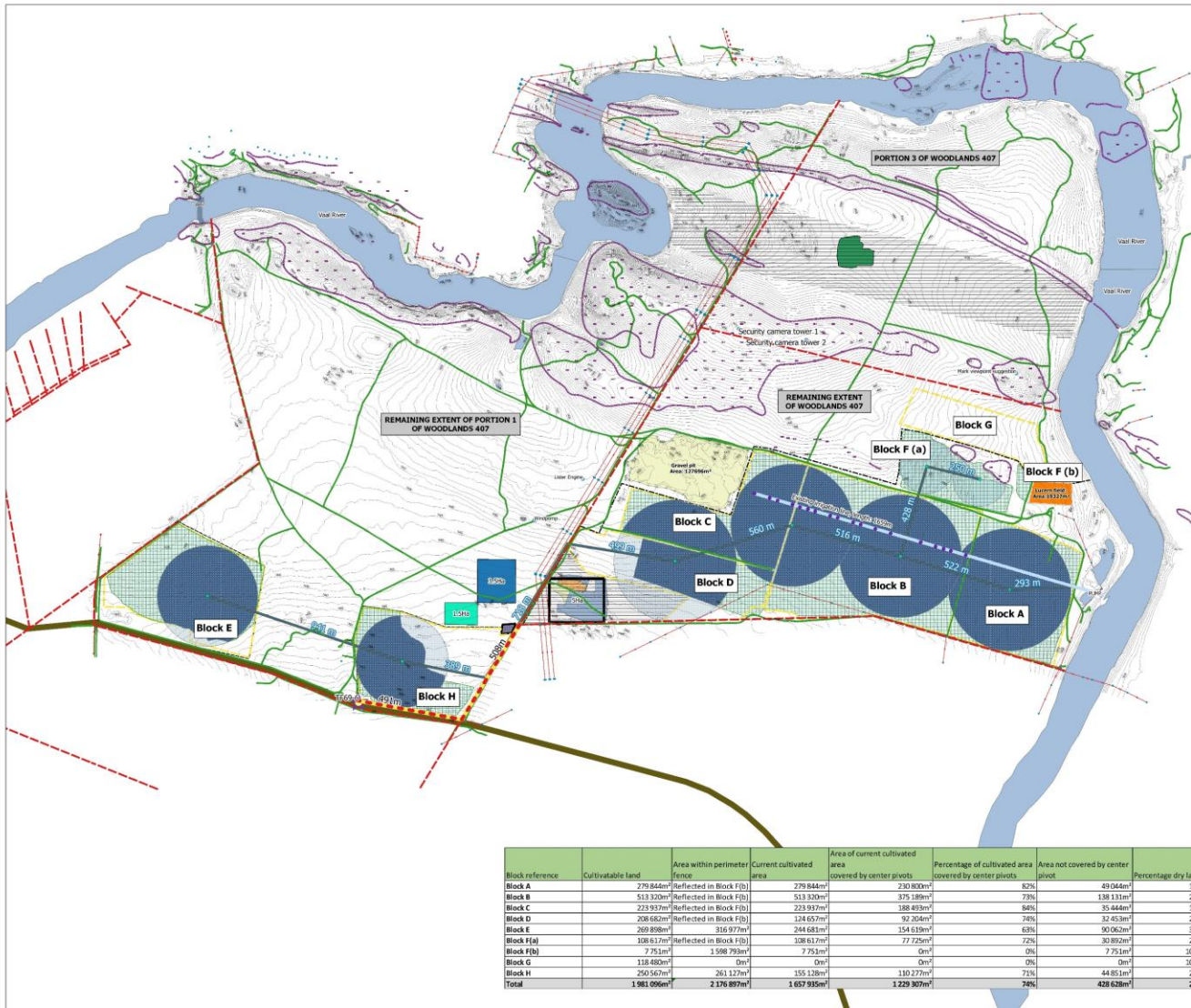
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PROPOSED CENTRE PIVOT LAYOUT (2017)

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



Legend

Goosebay Canyon Farm

- Tar road
- Vaal River Polygon
- New underground electrical cable
- 100kV Transformer TF69-6

Goosebay Canyon Farm - Agriculture

- Centre Pivot Irrigation line
- Centre Pivot Radius
- Centre pivot coverage areas
- Perimeter fence line
- Block division - Cultivable land
- Current cultivated areas 2016-2017

Soil types

- Rock outcrops
- Oakleaf Soil
- Hutton Soil
- Clovelly Soil

CLIENT: **VAN WYK LAND DEVELOPMENT CORPORATION (PTY) LTD**

DRAWING TITLE: **GOOSEBAY CANYON FARM AGRICULTURAL BASE MAP**

DESCRIPTION: **CENTER PIVOT LAYOUT FOR BLOCK A TO G**

DATE: 2017-11-03	SCALE: 1:8 000
DRAWING NO: 4	DRAWING VERSION: 1 OF 1

DRAWING PREPARED BY: MR. MADER VAN DEN BERG

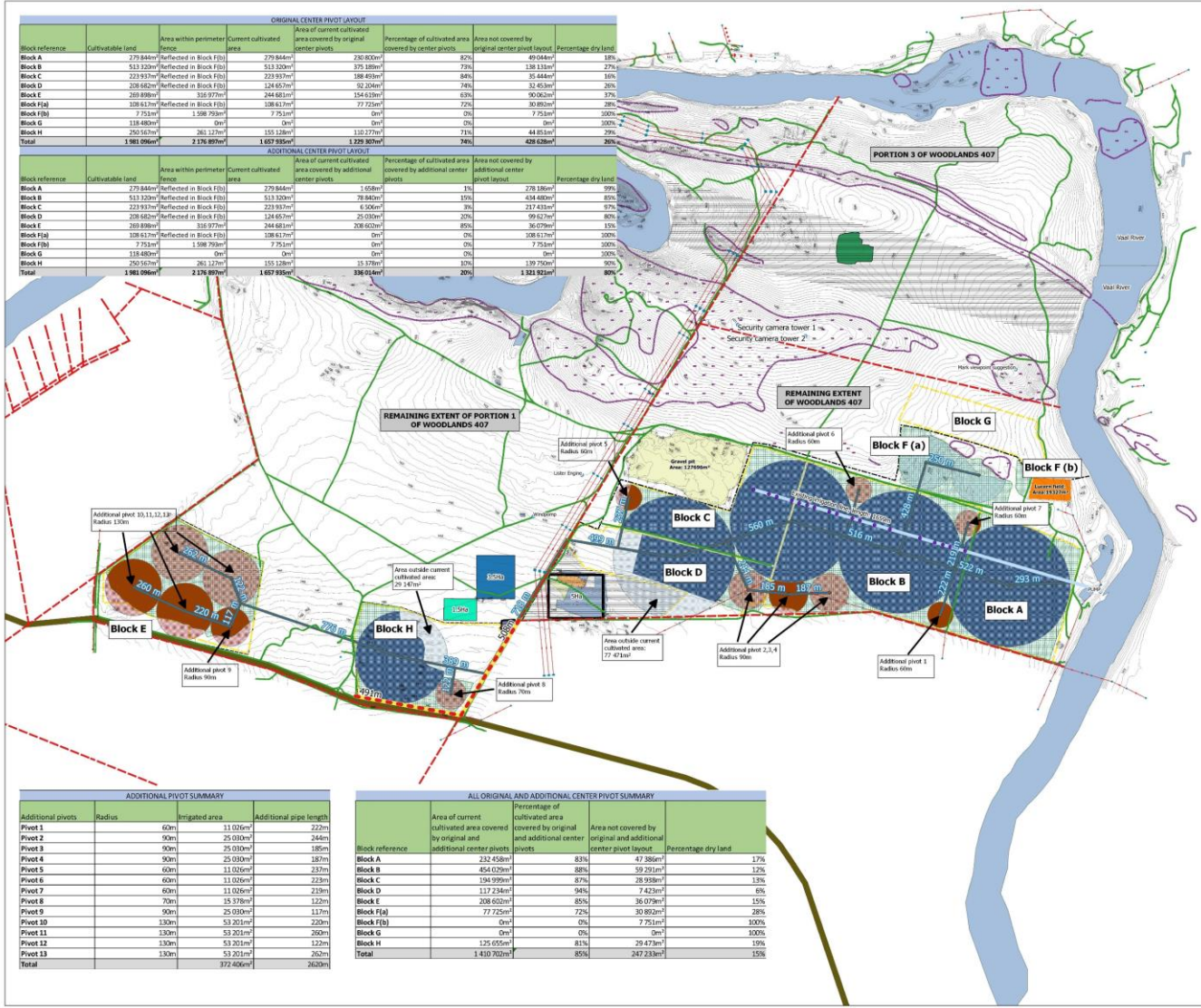
CONTACT DETAILS: **skels**
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TEL: +076 189 3450
 FAX: 086 502 4677
 EMAIL: info@skels.co.za

Block reference	Cultivable land	Area within perimeter fence	Current cultivated area	Area of current cultivated area covered by center pivots	Percentage of cultivated area covered by center pivots	Area not covered by center pivot	Percentage dry land
Block A	279 844m ²	Reflected in Block F(b)	279 844m ²	230 800m ²	82%	49 044m ²	18%
Block B	513 120m ²	Reflected in Block F(b)	513 120m ²	375 189m ²	73%	138 131m ²	27%
Block C	223 917m ²	Reflected in Block F(b)	223 917m ²	188 463m ²	84%	35 444m ²	16%
Block D	208 682m ²	Reflected in Block F(b)	124 657m ²	92 204m ²	74%	32 453m ²	26%
Block E	269 898m ²	316 977m ²	244 681m ²	154 619m ²	63%	90 062m ²	37%
Block F(a)	108 617m ²	Reflected in Block F(b)	108 617m ²	77 729m ²	72%	30 882m ²	28%
Block F(b)	7 751m ²	1 998 799m ²	7 751m ²	0m ²	0%	7 751m ²	100%
Block G	118 480m ²	0m ²	0m ²	0m ²	0%	0m ²	100%
Block H	250 567m ²	261 127m ²	155 128m ²	110 277m ²	71%	44 851m ²	29%
Total	1 981 006m²	2 176 897m²	1 657 935m²	1 229 907m²	74%	428 628m²	26%

PROPOSED CENTRE PIVOT LAYOUT (2017)

LOCALITY AND CONTEXT
 GOOSEBAY ECO ESTATE MASTER PLANS
 GOOSEBAY ECO ESTATE LUXURY CABINS
 GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
 GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
 GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
 GOOSEBAY ECO ESTATE BUFFALO CAMP
 STOREROOM/SHED
 GOOSEBAY DAMS
 BOREHOLES AND MONITORING POINTS
 AGRICULTURE
 MINING AND REHABILITATION
 TELECOMMUNICATION TOWERS



ORIGINAL CENTER PIVOT LAYOUT							
Block reference	Cultivable land	Area within perimeter fence	Current cultivated area	Area of current cultivated area covered by original center pivots	Percentage of cultivated area covered by center pivots	Area not covered by original center pivot layout	Percentage dry land
Block A	279 844m ²	Reflected in Block F(b)	279 844m ²	230 800m ²	82%	49 044m ²	18%
Block B	513 120m ²	Reflected in Block F(b)	513 120m ²	375 189m ²	73%	137 931m ²	27%
Block C	233 937m ²	Reflected in Block F(b)	233 937m ²	188 493m ²	80%	45 444m ²	16%
Block D	208 462m ²	Reflected in Block F(b)	146 657m ²	92 209m ²	79%	33 453m ²	20%
Block E	309 898m ²	Reflected in Block F(b)	309 897m ²	246 697m ²	63%	90 200m ²	37%
Block F(a)	108 617m ²	Reflected in Block F(b)	108 617m ²	77 725m ²	72%	30 892m ²	28%
Block F(b)	7 751m ²	1 598 799m ²	7 751m ²	0m ²	0%	7 751m ²	100%
Block G	118 483m ²	0m ²	0m ²	0m ²	0%	118 483m ²	100%
Block H	261 127m ²	261 127m ²	151 128m ²	110 177m ²	73%	44 950m ²	29%
Total	1 961 096m²	2 176 897m²	1 667 935m²	1 228 909m²	63%	429 030m²	28%

ADDITIONAL CENTER PIVOT LAYOUT							
Block reference	Cultivable land	Area within perimeter fence	Current cultivated area	Area of current cultivated area covered by additional center pivots	Percentage of cultivated area covered by additional center pivots	Area not covered by additional center pivot layout	Percentage dry land
Block A	279 844m ²	Reflected in Block F(b)	279 844m ²	278 156m ²	1%	278 156m ²	99%
Block B	513 120m ²	Reflected in Block F(b)	513 120m ²	378 865m ²	74%	134 255m ²	26%
Block C	233 937m ²	Reflected in Block F(b)	233 937m ²	6 500m ²	3%	227 437m ²	97%
Block D	208 462m ²	Reflected in Block F(b)	146 657m ²	25 000m ²	20%	99 612m ²	80%
Block E	309 898m ²	Reflected in Block F(b)	309 897m ²	208 600m ²	67%	96 297m ²	33%
Block F(a)	108 617m ²	Reflected in Block F(b)	108 617m ²	0m ²	0%	108 617m ²	100%
Block F(b)	7 751m ²	1 598 799m ²	7 751m ²	0m ²	0%	7 751m ²	100%
Block G	118 483m ²	0m ²	0m ²	0m ²	0%	118 483m ²	100%
Block H	261 127m ²	261 127m ²	151 128m ²	15 378m ²	10%	139 750m ²	90%
Total	1 961 096m²	2 176 897m²	1 667 935m²	336 643m²	20%	1 324 902m²	80%

ADDITIONAL PIVOT SUMMARY			
Additional pivots	Radius	Irrigated area	Additional pipe length
Pivot 1	60m	11 026m ²	222m
Pivot 2	50m	25 030m ²	246m
Pivot 3	90m	25 030m ²	185m
Pivot 4	90m	25 030m ²	187m
Pivot 5	60m	11 026m ²	237m
Pivot 6	60m	11 026m ²	223m
Pivot 7	60m	11 026m ²	239m
Pivot 8	70m	15 378m ²	122m
Pivot 9	90m	25 030m ²	117m
Pivot 10	130m	53 201m ²	220m
Pivot 11	130m	53 201m ²	260m
Pivot 12	130m	53 201m ²	122m
Pivot 13	130m	53 201m ²	262m
Total		372 406m²	2630m

ALL ORIGINAL AND ADDITIONAL CENTER PIVOT SUMMARY							
Block reference	Area of current cultivated area covered by original and additional center pivots	Percentage of cultivated area covered by original and additional center pivots	Area not covered by original and additional center pivot layout	Percentage dry land			
Block A	232 458m ²	83%	47 386m ²	17%			
Block B	454 079m ²	88%	59 297m ²	12%			
Block C	194 999m ²	67%	28 938m ²	13%			
Block D	117 234m ²	94%	7 423m ²	6%			
Block E	208 600m ²	85%	36 078m ²	15%			
Block F(a)	77 725m ²	72%	30 892m ²	28%			
Block F(b)	0m ²	0%	7 751m ²	100%			
Block G	0m ²	0%	118 483m ²	100%			
Block H	126 055m ²	81%	29 473m ²	19%			
Total	1 410 705m²	85%	247 233m²	15%			

Legend

Goosebay Canyon Eam
 Tar road
 Vaal River, Polygon
 New underground electrical cable
 100kV Transformer TF60-6

Goosebay Canyon Eam - Agriculture
 Center Pivot Irrigation line
 Centre Pivot Radius
 Center pivot coverage areas
 Additional center pivots
 Additional center pivot coverage areas
 Perimeter fence line
 Block division - Cultivable land
 Current cultivated areas 2016-2017

Soil types
 Rock outcrops
 Oakleaf Soil
 Hutton Soil
 Clovelly Soil

CLIENT: **VAN WYK LAND DEVELOPMENT CORPORATION (PTY) LTD**

DRAWING TITLE: **GOOSEBAY CANYON FARM AGRICULTURAL BASE MAP**
 DESCRIPTION: ORIGINAL AND ADDITIONAL CENTER PIVOT LAYOUT FOR BLOCK A TO G

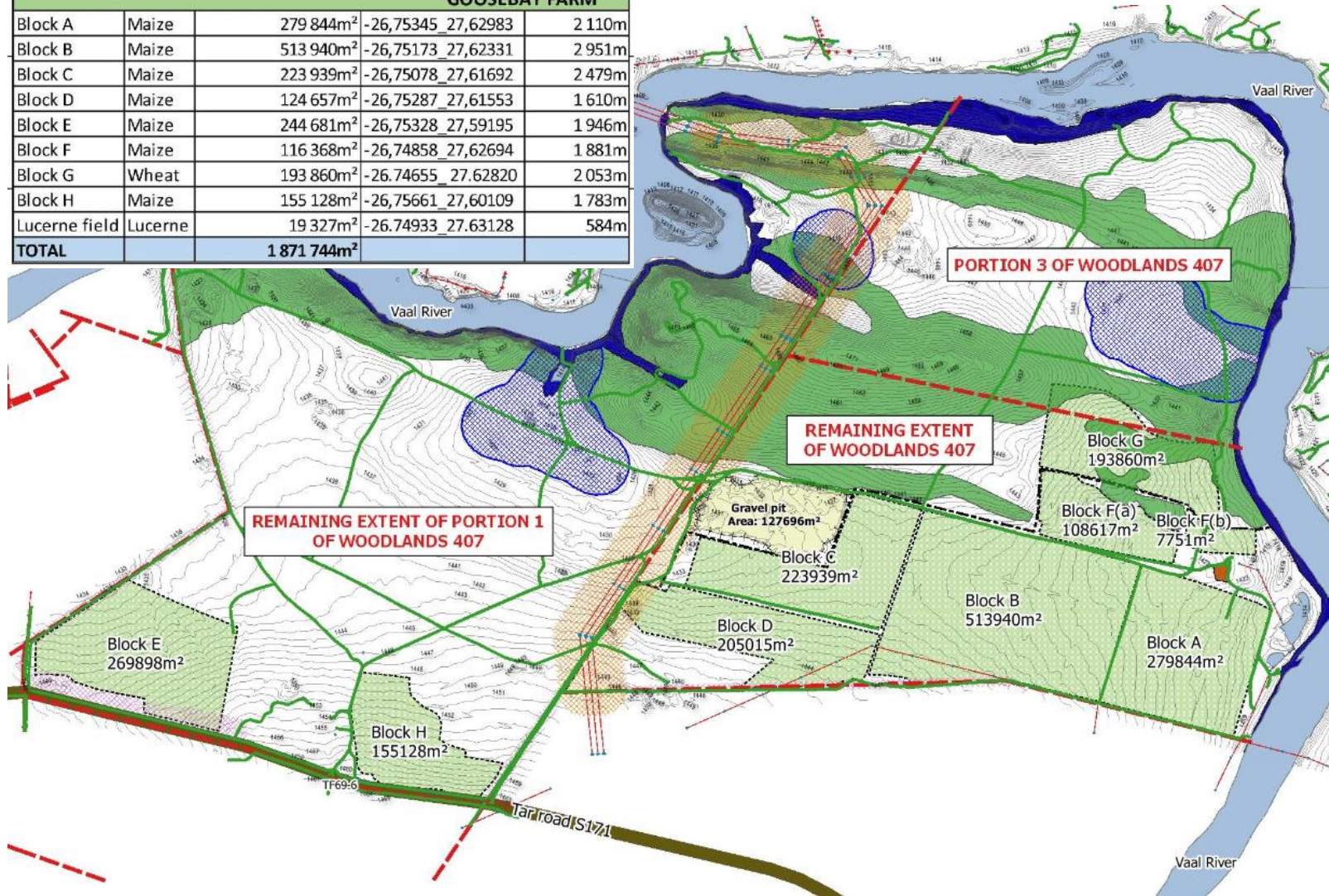
DATE: 2017-11-06 SCALE: 1:8 000
 DRAWING NO: 5 DRAWING VERSION: 1 OF 1

DRAWING PREPARED BY: MR. MADER VAN DEN BERG
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 2358 FORTHEIM ERG EPMG: mader@skels.co.za

skels AGRICULTURE - PLANNING - ENVIRONMENTAL SERVICES

AGRICULTURAL FIELDS (2018)

BLOCK REF	CROP	AREA CULTIVATED	CENTROID	PERIMETER
GOOSEBAY FARM				
Block A	Maize	279 844m ²	-26,75345_ 27,62983	2 110m
Block B	Maize	513 940m ²	-26,75173_ 27,62331	2 951m
Block C	Maize	223 939m ²	-26,75078_ 27,61692	2 479m
Block D	Maize	124 657m ²	-26,75287_ 27,61553	1 610m
Block E	Maize	244 681m ²	-26,75328_ 27,59195	1 946m
Block F	Maize	116 368m ²	-26,74858_ 27,62694	1 881m
Block G	Wheat	193 860m ²	-26,74655_ 27,62820	2 053m
Block H	Maize	155 128m ²	-26,75661_ 27,60109	1 783m
Lucerne field	Lucerne	19 327m ²	-26,74933_ 27,63128	584m
TOTAL		1 871 744m²		



- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS

PROPOSED PECAN NUT GROVES (2019)

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



Legend

- Goosebay cadastral info
- Existing power lines
- X X 2.5MVA Power supply
- Proposed access roads to plant
- Tar road (S171)

CLIENT:
GOOSEBAY FARM

DRAWING TITLE:
Goosebay Farm Agricultural practices
DESCRIPTION:
Pecan Nut groves along S171 Road

DATE: 2019-05-13 SCALE (A3): 1:6 000

DRAWING NO: 1 of 1 DRAWING VERSION: 2

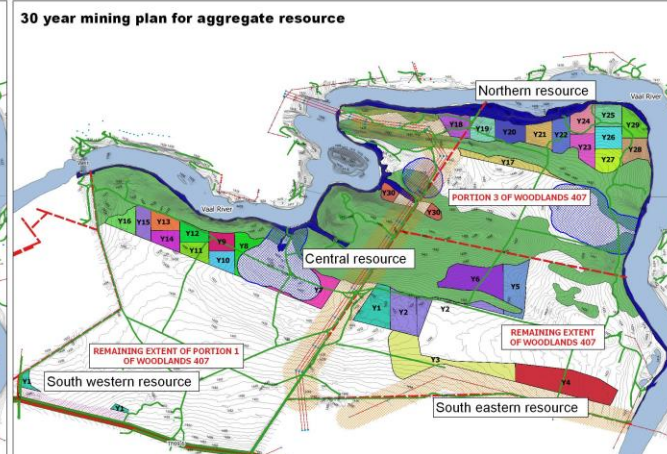
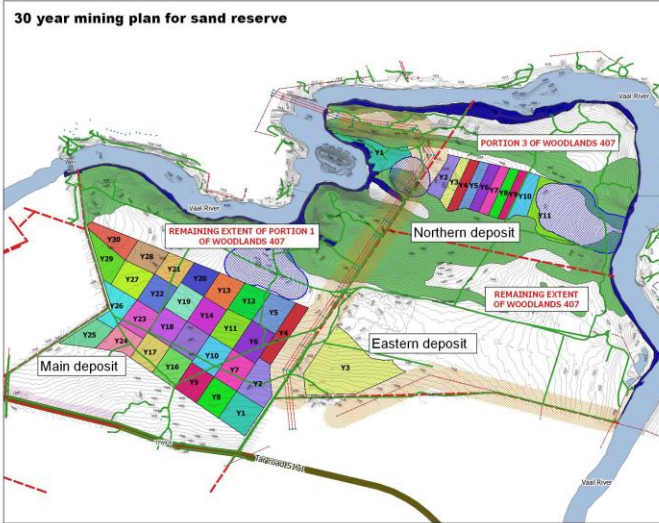
DRAWING PREPARED BY:
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RESOURCE DISTRIBUTION

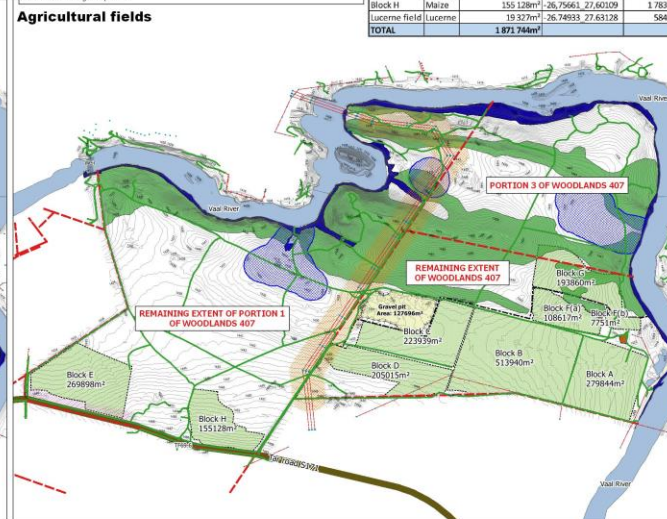
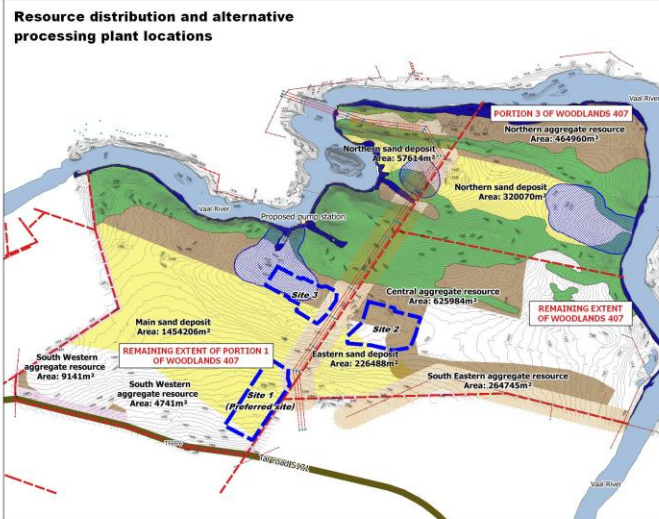
LOCALITY AND CONTEXT
 GOOSEBAY ECO ESTATE MASTER PLANS
 GOOSEBAY ECO ESTATE LUXURY CABINS
 GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
 GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
 GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
 GOOSEBAY ECO ESTATE BUFFALO CAMP
 STOREROOM/SHED
 GOOSEBAY DAMS
 BOREHOLES AND MONITORING POINTS
 AGRICULTURE
 MINING AND REHABILITATION
 TELECOMMUNICATION TOWERS



NOTES:
 Buffer areas were calculated according to the following criteria:
 -100m around wetlands (preliminary)
 -100m from main tar road
 -100m from electrical infrastructure (relaxation can be applied for)
 -20m from property boundaries

The following buffer zones are outstanding and requires incorporation to determine final resource distribution:
 - Buffer zones around archeological sites, riparian systems, ecological sensitive and high biodiversity areas. (Ridges and riparian zones were excluded from the resource distribution based on the scoping phase assessments and delineation. Buffer zones are still to be determined during EIA phase.)

BLOCK REF	CROP	AREA CULTIVATED	CENTROID	PERIMETER
GOOSEBAY FARM				
Block A	Maize	279 844m ²	26,75345, 27,62983	2 110m
Block B	Maize	513 940m ²	26,75171, 27,62311	2 951m
Block C	Maize	223 539m ²	26,75076, 27,61692	2 479m
Block D	Maize	124 650m ²	26,75287, 27,61553	1 610m
Block E	Maize	244 681m ²	26,75328, 27,59195	1 946m
Block F	Maize	116 366m ²	26,74856, 27,62694	1 881m
Block G	Wheat	193 860m ²	26,74655, 27,62820	2 053m
Block H	Maize	355 128m ²	26,75661, 27,60139	1 836m
Block I	Lucerne	19 327m ²	26,74933, 27,63128	584m
TOTAL		1 871 744m²		



Legend

Mine layout
 Processing plant footprint
 Pump station
Goosebay Canyon Farm
 Vaal River Polygon
 GOOSEBAY TRACKS
 Goosebay cadastral info
 Goosebay dams
 Goosebay electricity

Buffer zones
 100m Wetland buffer (pre-mitigation)
 100m power line buffer
 20m property boundary buffer
 100m road intersection
 Riparian zone
 Ridge (preliminary)

Resource distribution
 Aggregate resource
 Sand deposit
 Goosebay Canyon Farm - Agriculture
 Agricultural block
 Fence line

30 year mining plan

Y1	Y11	Y21
Y2	Y12	Y22
Y3	Y13	Y23
Y4	Y14	Y24
Y5	Y15	Y25
Y6	Y16	Y26
Y7	Y17	Y27
Y8	Y18	Y28
Y9	Y19	Y29
Y10	Y20	Y30

CLIENT:
PURE SOURCE MINE

DRAWING TITLE:
 GOOSEBAY FARM, CURRENT AND FUTURE LAND USES

DESCRIPTION:
 REPRESENTATION OF MINING AND AGRICULTURAL ACTIVITIES ON GOOSEBAY FARM

DATE:
 2018-10-04

DRAWING NO:
 1 OF 1

SCALE (A1):
 1:11 000

DRAWING VERSION:
 12

DRAWING PREPARED BY:
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 HULPOEF IN LANDSCAPE ARCHITECTURE

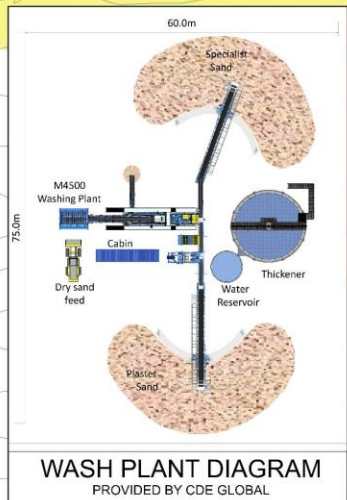
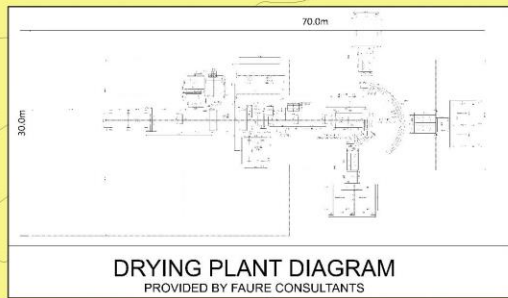
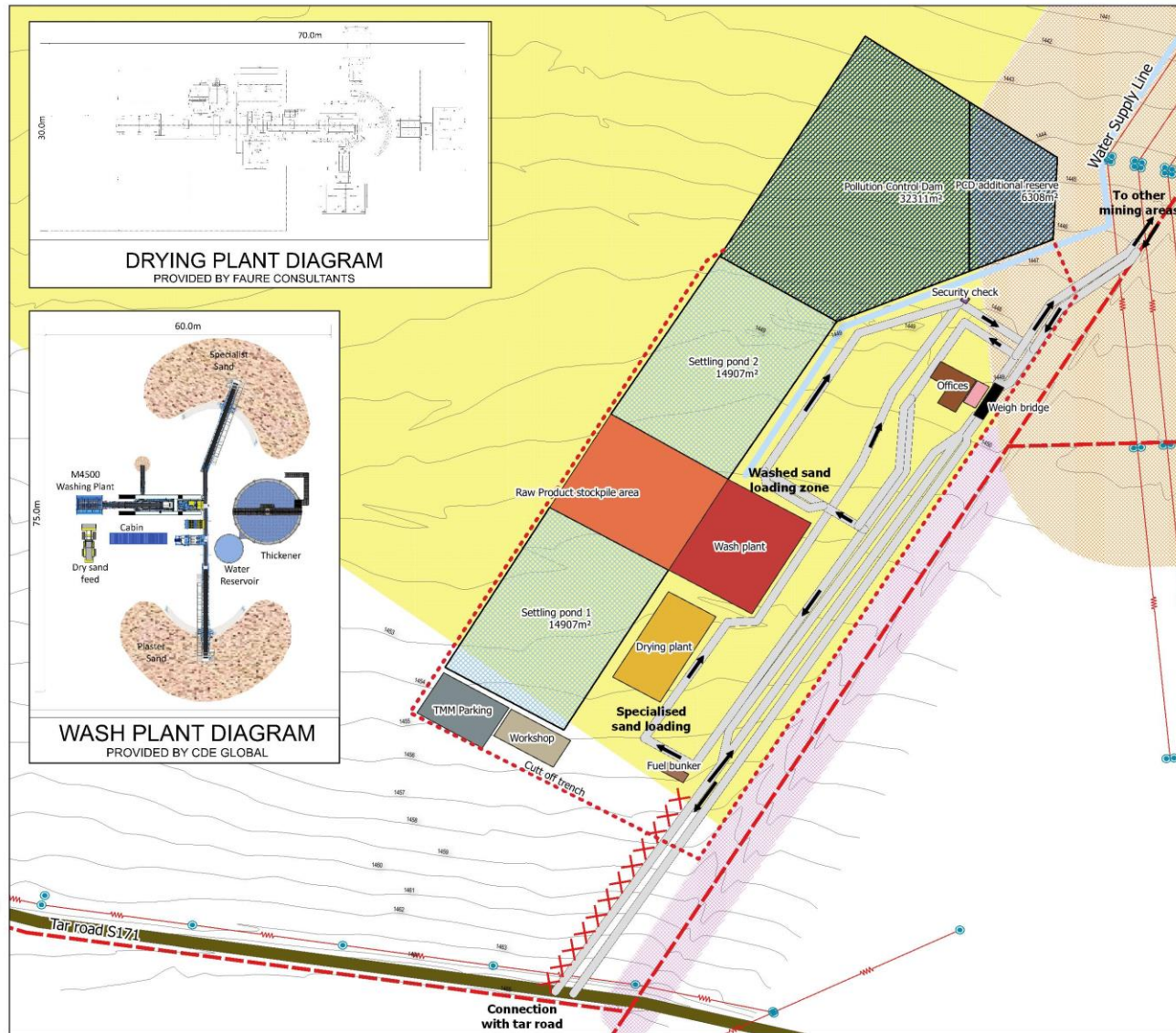
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PROPOSED PROCESSING PLANT

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



Legend

- Goosebay Canyon Farm
- Tar road
- Goosebay cadastral info
- Buffer zones
 - 100m power line buffer
 - 20m property boundary buffer
- Mining infrastructure
 - Roads
 - 2.5MVA Power supply
 - Cut off trench
 - Trackless Mobile Machine parking
 - Pollution Control Dam
 - Fuel bunker
 - Main Offices
 - Main Water supply line
 - Weigh bridge office
 - Security check point
 - Workshop
 - Weigh bridge
 - Raw product stockpile
 - Drying plant
 - Wash plant
 - Settling ponds
 - Estimated sand deposit

CLIENT: **PURE SOURCE MINE**

DRAWING TITLE:
Site 1 - Processing plant (Draft)
DESCRIPTION:
Conceptual Layout of the processing plant

DATE: 2018-09-21 SCALE A3: 1:2 000

DRAWING NO: 1 of 4 DRAWING VERSION: 4

DRAWING PREPARED BY:
MR. MADER VAN DEN BERG
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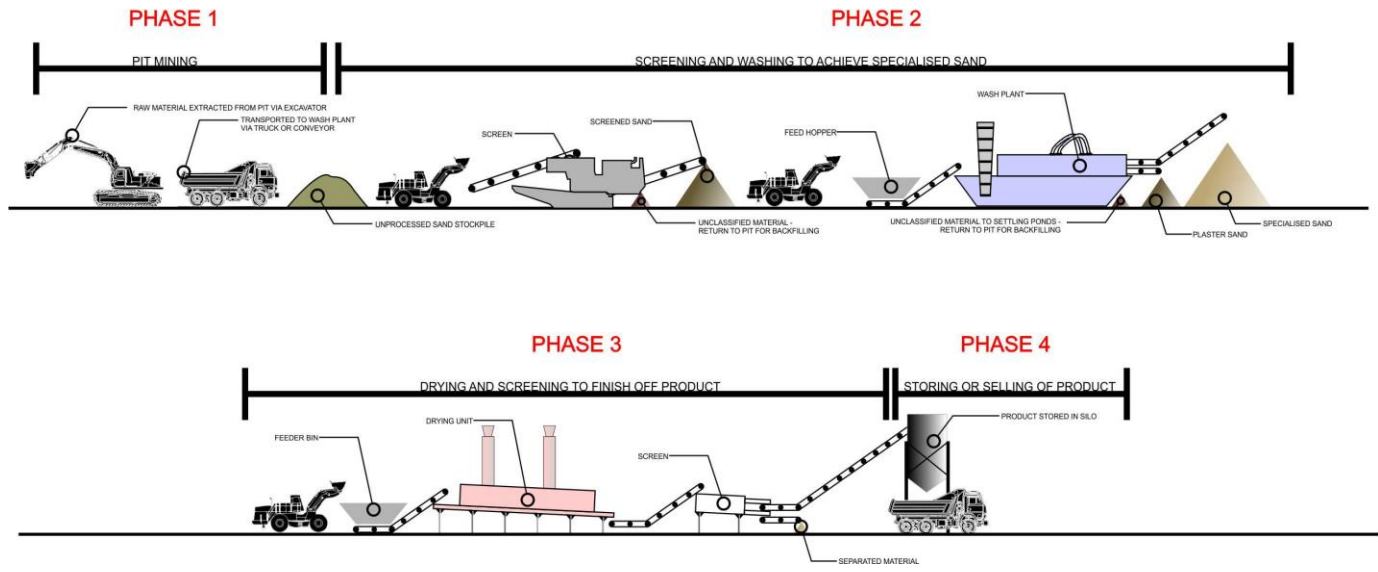
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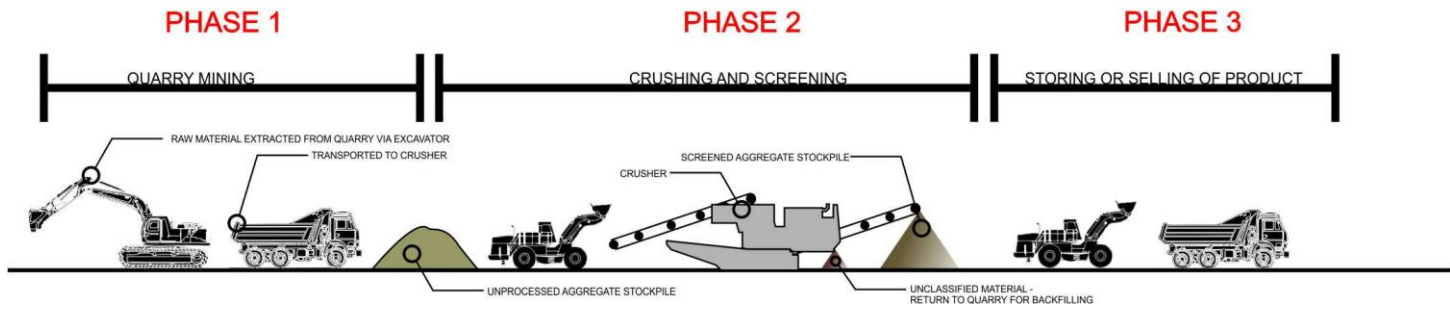
FLOW DIAGRAM OF PROPOSED PROCESSING PLANT

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS

SPECIALISED SAND PROCESSING

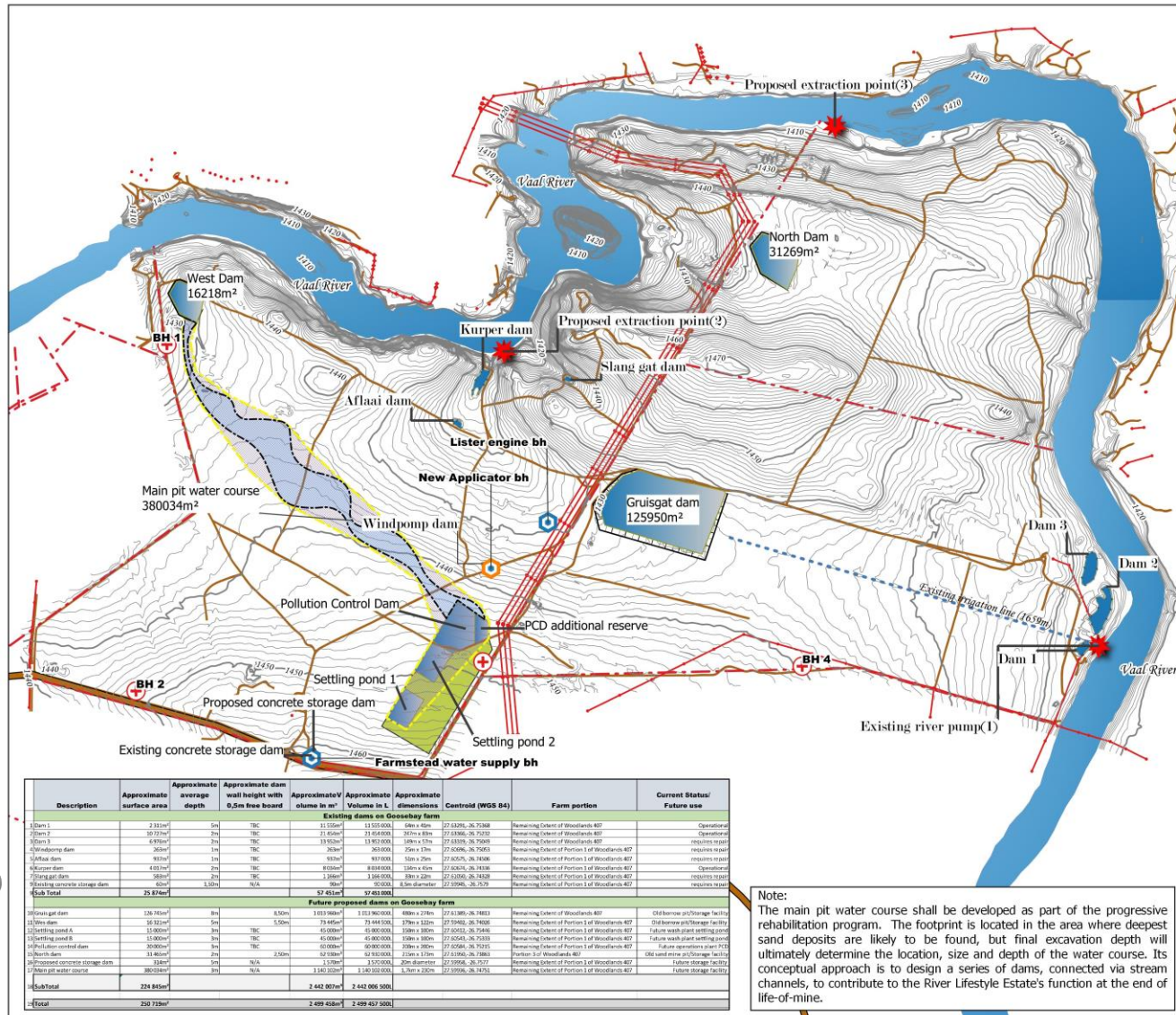


AGGREGATE MINING AND PROCESSING



PROPOSED WATER COURSES AND DAMS

LOCALITY AND CONTEXT
 GOOSEBAY ECO ESTATE MASTER PLANS
 GOOSEBAY ECO ESTATE LUXURY CABINS
 GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
 GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
 GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
 GOOSEBAY ECO ESTATE BUFFALO CAMP
 STOREROOM/SHED
 GOOSEBAY DAMS
 BOREHOLES AND MONITORING POINTS
 AGRICULTURE
 MINING AND REHABILITATION
 TELECOMMUNICATION TOWERS



Legend

Existing and future dams

- Existing dams
- Proposed dams
- Conceptual dam and stream layout
- Main pit proposed water course

Farm information

- River extraction (pump)
- Cadastral information
- Rocky outcrops
- S171 tar road
- Dirt tracks

Processing plant

- Site 1 processing water
- Site 1 plant footprint

CLIENT:
PURE SOURCE MINE

DRAWING TITLE:
 Goosebay farm dams and related water features

DESCRIPTION:
 Goosebay farm existing and proposed dams

DATE: 2020-08-11 SCALE (A3): 1:15 000

DRAWING NO: 1 of 1 DRAWING VERSION: 6
 Projection: WGS 84/UTM 35S

DRAWING PREPARED BY:
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 ML(PROF) IN LANDSCAPE ARCHITECTURE

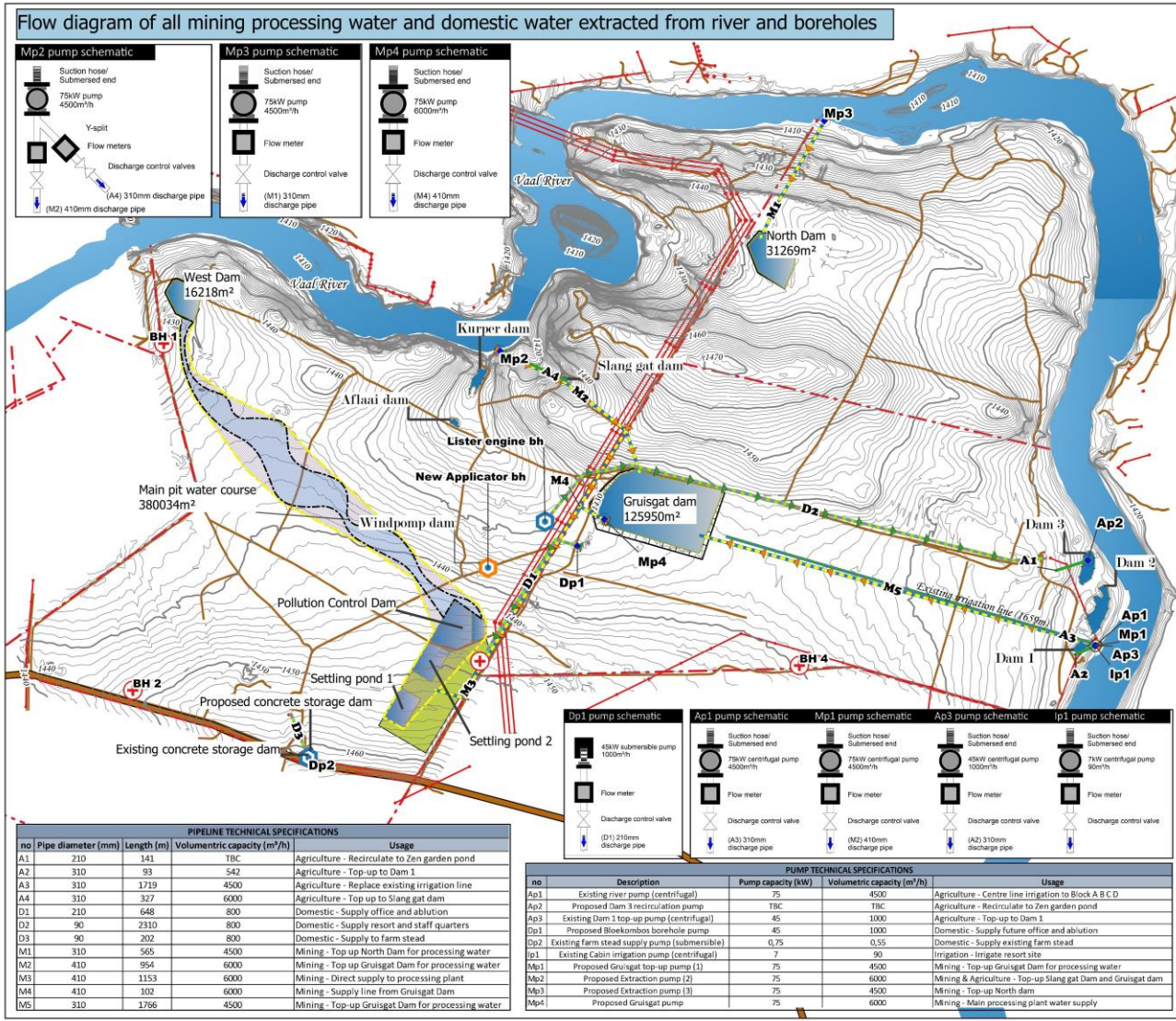
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Description	Approximate surface area	Approximate average depth	Approximate dam wall height with 0,5m free board	Approximate volume in m ³	Approximate dimensions	Approximate dimensions	Centroid (WGS 84)	Farm portion	Current Status/ Future use
Existing dams on Goosebay farm									
1 Dam 1	2 332m ²	5m	TBC	11 535m ³	13 535m ³	68m x 28m	(27 627,25, -26 734,68)	Remaining Extent of Woodlands 497	Operational
2 Dam 2	38 137m ²	3m	TBC	73 545m ³	73 545m ³	305m x 68m	(27 538,66, -26 720,83)	Remaining Extent of Woodlands 497	Operational
3 Dam 3	6 939m ²	3m	TBC	13 878m ³	13 878m ³	148m x 37m	(27 533,78, -26 726,60)	Remaining Extent of Woodlands 497	requires report
4 Windpomp dam	263m ²	3m	TBC	263m ³	263m ³	25m x 37m	(27 624,98, -26 748,65)	Remaining Extent of Portion 1 of Woodlands 497	requires report
5 Vaal dam	816m ²	3m	TBC	816m ³	816m ³	100m x 20m	(27 624,76, -26 748,65)	Remaining Extent of Portion 1 of Woodlands 497	requires report
6 Kurper dam	4 037m ²	3m	TBC	8 074m ³	8 074m ³	100m x 40m	(27 624,76, -26 748,65)	Remaining Extent of Portion 1 of Woodlands 497	Operational
7 Slang gat dam	588m ²	3m	TBC	1 176m ³	1 176m ³	80m x 20m	(27 538,66, -26 748,65)	Remaining Extent of Portion 1 of Woodlands 497	requires report
8 1/2m x 1/2m concrete storage dam	63m ²	1,5m	N/A	96m ³	96m ³	8,5m diameter	(27 538,66, -26 737,59)	Remaining Extent of Portion 1 of Woodlands 497	requires report
Sub Total	25 874m²			67 851m³	67 851m³				
Future proposed dams on Goosebay farm									
9 Gruitgat dam	126 745m ²	8m	8,50m	1 013 968m ³	1 013 968m ³	400m x 278m	(27 61 985, -26 748,63)	Remaining Extent of Woodlands 497	Old borrow pit/Storage facility
10 New dam	95 312m ²	3m	5,50m	79 448 500m ³	79 448 500m ³	370m x 120m	(27 594,60, -26 749,65)	Remaining Extent of Portion 1 of Woodlands 497	Old borrow pit/Storage facility
11 Settling pond A	15 000m ²	3m	TBC	45 000m ³	45 000m ³	60 000m x 300m	(27 624,76, -26 748,65)	Remaining Extent of Portion 1 of Woodlands 497	Future wash plant settling pond
12 Settling pond B	15 000m ²	3m	TBC	45 000m ³	45 000m ³	60 000m x 300m	(27 624,76, -26 748,65)	Remaining Extent of Portion 1 of Woodlands 497	Future wash plant settling pond
13 Pollution control dam	30 000m ²	3m	TBC	90 000m ³	90 000m ³	60 000m x 300m	(27 624,76, -26 748,65)	Remaining Extent of Portion 1 of Woodlands 497	Future wash plant settling pond
14 Pollution control dam	30 000m ²	3m	TBC	90 000m ³	90 000m ³	60 000m x 300m	(27 624,76, -26 748,65)	Remaining Extent of Portion 1 of Woodlands 497	Future wash plant settling pond
15 Storage dam	31 848m ²	3m	N/A	62 716m ³	62 716m ³	170m x 120m	(27 624,76, -26 748,65)	Portion 1 of Woodlands 497	Old used mine pit/Storage facility
16 Proposed concrete storage dam	588m ²	3m	N/A	1 176m ³	1 176m ³	80m x 20m	(27 538,66, -26 748,65)	Remaining Extent of Portion 1 of Woodlands 497	Future storage facility
17 Main pit water course	380 034m ²	3m	N/A	1 140 102m ³	1 140 102m ³	3,7m x 250m	(27 538,66, -26 748,65)	Remaining Extent of Portion 1 of Woodlands 497	Future storage facility
Sub Total	224 845m²			2 442 207m³	2 442 207m³				
Total	250 719m²			2 499 658m³	2 499 658m³				

Note:
 The main pit water course shall be developed as part of the progressive rehabilitation program. The footprint is located in the area where deepest sand deposits are likely to be found, but final excavation depth will ultimately determine the location, size and depth of the water course. Its conceptual approach is to design a series of dams, connected via stream channels, to contribute to the River Lifestyle Estate's function at the end of life-of-mine.

FLOW DIAGRAM OF RIVER EXTRACTION FOR MINE PROCESSING

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



- Legend**
- Existing and future dams**
- Existing dams
 - Proposed dams
 - Conceptual dam and stream layout
 - Main pit proposed water course
- Farm information**
- Cadastral information
 - S171 tar road
 - Dirt tracks
- Processing plant**
- Site 1 processing water
 - Site 1 plant footprint
- Pipelines and pumps**
- Agriculture
 - Irrigation
 - Domestic
 - Mining
 - Pump location
 - Goosebay operable boreholes
 - Original monitoring boreholes

CLIENT: PURE SOURCE MINE

DRAWING TITLE:
Goosebay/Pure Source Mine water extraction points, technical specifications of proposed-existing pipes and pumps
DESCRIPTION:
Mine processing water extracted from Vaal River and boreholes. Proposed agricultural and domestic extraction points.

DATE: 2020-08-11 | SCALE (A3): 1:15 000

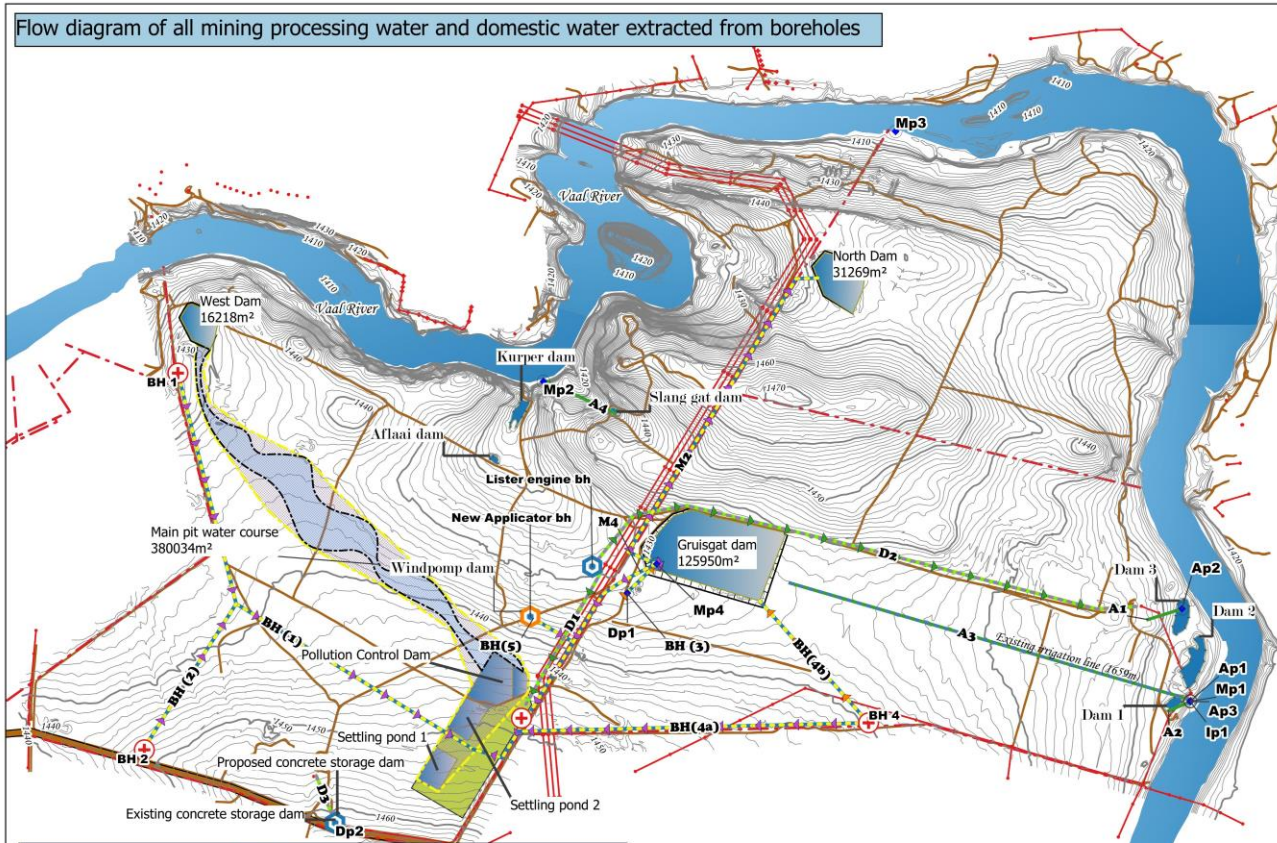
DRAWING NO: 1 of 2 | DRAWING VERSION: 4
Projection: WGS 84/UTM 35S

DRAWING PREPARED BY:
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FLOW DIAGRAM OF BOREHOLE EXTRACTION FOR MINE PROCESSING

- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



PIPELINE TECHNICAL SPECIFICATIONS				
no	Pipe diameter (mm)	Length (m)	Volumetric capacity (m³/h)	Usage
A1	210	141	TBC	Agriculture - Recirculate to Zen garden pond
A2	310	93	542	Agriculture - Top-up to Dam 1
A3	310	1719	4500	Agriculture - Replace existing irrigation line
A4	310	327	6000	Agriculture - Top-up to Slang gat dam
D1	110 (max)	648	800	Domestic - Supply office and abutment
D2	90	2310	2,2	Domestic - Supply resort and staff quarters
D3	90	202	2,2	Domestic - Supply to farm stead
BH(1)	110 (max)	2047	TBC	Mining - BH 1 direct supply to processing plant
BH(2)	110 (max)	687	TBC	Mining - BH 2 direct supply to processing plant
BH(3)	110 (max)	160	TBC	Mining - BH 3 Top-up of Gruisgat dam
BH(4a)	110 (max)	1389	TBC	Mining - BH 4 direct supply to plant
BH(4b)	110 (max)	648	TBC	Mining - BH 4 top-up of Gruisgat dam
BH(5)	110 (max)	198	TBC	Mining - New applicator bh direct supply to processing plant
M2	TBC	1485	TBC	Mining - Supply from Gruisgat dam to North Dam
M4	410	1122	6000	Mining - Supply line from Gruisgat Dam to processing plant

Notes: Existing tested boreholes can only supply 13 33m³/month, but with further groundwater development an additional 14 375m³/month could potentially be extracted which should satisfy the demand for mining processing water (according to Noa Agencies email on 2019-03-06).

PUMP TECHNICAL SPECIFICATIONS				
no	Description	Pump capacity (kW)	Volumetric capacity (m³/h)	Usage
Ap1	Existing river pump (centrifugal)	75	4500	Agriculture - Centre line irrigation to Block A B C D
Ap2	Proposed Dam 1 recirculation pump	TBC	TBC	Agriculture - Recirculate to Zen garden pond
Ap3	Existing Dam 1 top-up pump (centrifugal)	45	1000	Agriculture - Top-up to Dam 1
Dp1	Proposed Bloekombos borehole pump	45	1000	Mining - Top-up Gruisgat Dam
Dp2	Existing farm stead supply pump (submersible)	0,75	0,55	Domestic - Supply existing farm stead
Ip1	Existing Cabin irrigation pump (centrifugal)	7	90	Irrigation - Irrigate resort site
Mp2	Proposed Extraction pump (2)	75	6000	Agriculture - Top-up Slang gat Dam
Mp3	Proposed Extraction pump (3)	75	6000	Mining - Main processing plant water supply
Mp4	Proposed Gruisgat pump (2)	75	6000	Mining - Main processing plant water supply
BH1	Originally Noa monitoring 1 bh	TBC	TBC	Mining - Main processing plant water supply
BH2	Originally Noa monitoring 2 bh	TBC	TBC	Mining - Main processing plant water supply
BH4	Originally Noa monitoring 4 bh	TBC	TBC	Mining - Main processing plant water supply and Gruisgat top-up

- Legend**
- Existing and future dams**
- Existing dams
 - Proposed dams
 - Conceptual dam and stream layout
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- Farm information**
- Cadastral information
 - S171 tar road
 - Dirt tracks
- Processing plant**
- Site 1 processing water
 - Site 1 plant footprint
- Pipelines and pumps**
- Mining
 - Top-up gruisgat
 - Domestic
 - Agriculture
 - Irrigation
 - Pump location
 - Goosebay operable borehole
 - Original monitoring borehole

CLIENT: PURE SOURCE MINE

DRAWING TITLE:
Goosebay/Pure Source Mine water extraction points, technical specifications of proposed and existing pipes and pumps
DESCRIPTION:
Mine processing water extracted exclusively from boreholes. Proposed agricultural and domestic extraction points.

DATE: 2020-08-11 | SCALE (A3): 1:15 000

DRAWING NO: 2 of 2 | DRAWING VERSION: 5

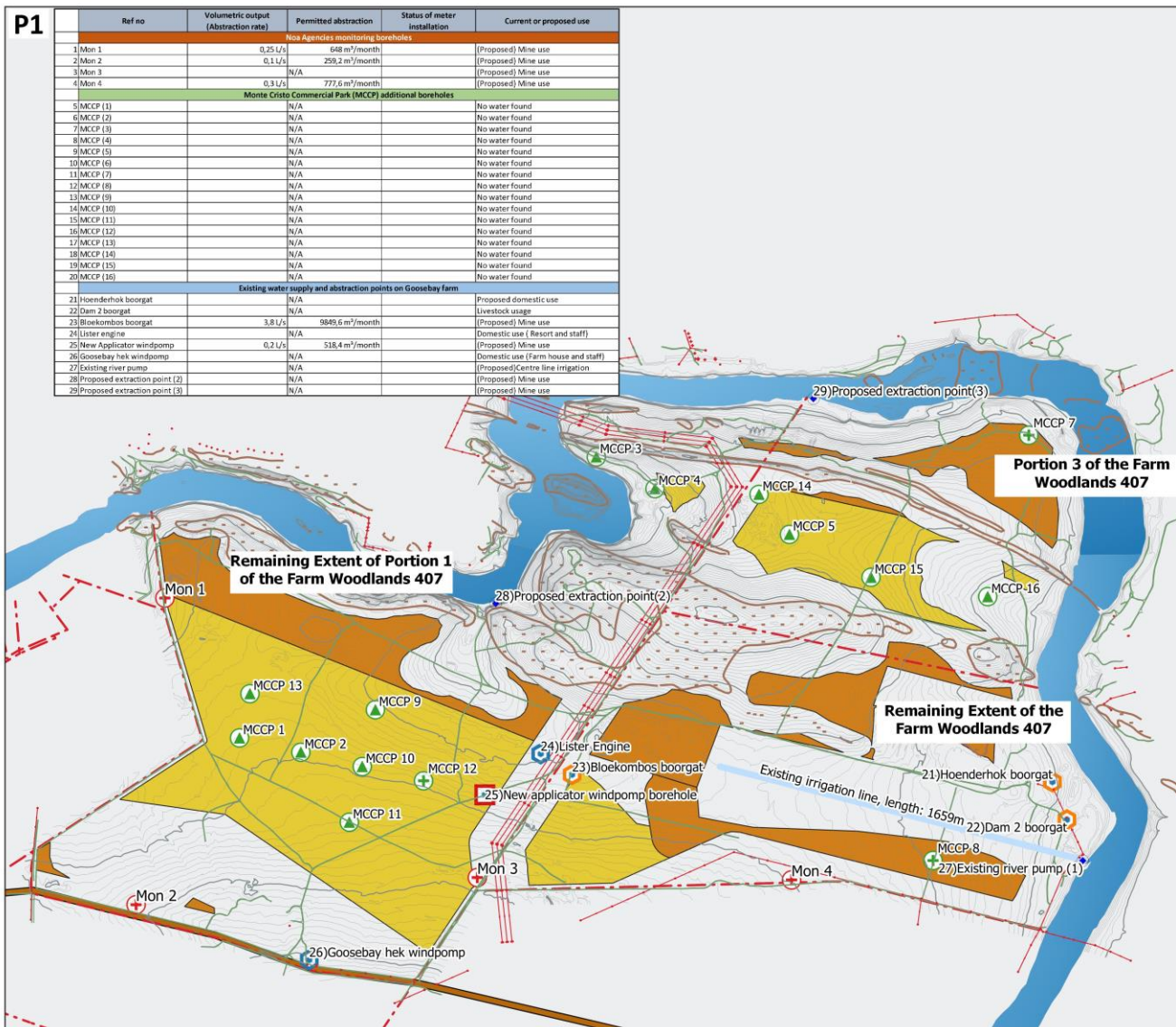
Projection: WGS 84/UTM 35S

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BOREHOLES AND DRILLING POINTS RESULTS

LOCALITY AND CONTEXT
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 GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
 GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
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 TELECOMMUNICATION TOWERS



P1	Ref no	Volumetric output (Abstraction rate)	Permitted abstraction	Status of meter installation	Current or proposed use
Noa Agencies monitoring boreholes					
	1 Mon 1	0,25 L/s	648 m ³ /month		(Proposed) Mine use
	2 Mon 2	0,1 L/s	258,2 m ³ /month		(Proposed) Mine use
	3 Mon 3	N/A			(Proposed) Mine use
	4 Mon 4	0,3 L/s	777,6 m ³ /month		(Proposed) Mine use
Monte Cristo Commercial Park (MCCP) additional boreholes					
	5 MCCP (1)	N/A		No water found	
	6 MCCP (2)	N/A		No water found	
	7 MCCP (3)	N/A		No water found	
	8 MCCP (4)	N/A		No water found	
	9 MCCP (5)	N/A		No water found	
	10 MCCP (6)	N/A		No water found	
	11 MCCP (7)	N/A		No water found	
	12 MCCP (8)	N/A		No water found	
	13 MCCP (9)	N/A		No water found	
	14 MCCP (10)	N/A		No water found	
	15 MCCP (11)	N/A		No water found	
	16 MCCP (12)	N/A		No water found	
	17 MCCP (13)	N/A		No water found	
	18 MCCP (14)	N/A		No water found	
	19 MCCP (15)	N/A		No water found	
	20 MCCP (16)	N/A		No water found	
Existing water supply and abstraction points on Goosebay farm					
	21 Hoenderhok boorgat	N/A			Proposed domestic use
	22 Dam 2 boorgat	N/A			Livestock usage
	23 Bloekombos boorgat	3,8 L/s	9849,6 m ³ /month		(Proposed) Mine use
	24 Lister engine	N/A			Domestic use (Resort and staff)
	25 New Applicator windpomp	0,2 L/s	518,4 m ³ /month		(Proposed) Mine use
	26 Goosebay hek windpomp	N/A			Domestic use (Farm house and staff)
	27 Existing river pump	N/A			(Proposed)Centre line irrigation
	28 Proposed extraction point (2)	N/A			(Proposed) Mine use
	29 Proposed extraction point (3)	N/A			(Proposed) Mine use

Ref no	Coordinate (WGS 84)	Status
Noa Agencies monitoring boreholes		
1 Mon 1	-26.7402, 27.5914	Drilled on 2019-02-05
2 Mon 2	-26.7355, 27.58187	Drilled on 2019-02-06
3 Mon 3	-26.7431, 27.6099	Drilled on 2019-02-07
4 Mon 4	-26.7414, 27.62014	Drilled on 2019-02-08
Monte Cristo Commercial Park (MCCP) additional boreholes		
5 MCCP (1)	-26.7417, 27.5949	Drilled on 2019-02-05
6 MCCP (2)	-26.7489, 27.5911	Drilled on 2019-02-27
7 MCCP (3)	-26.7391, 27.6114	Drilled on 2019-02-06
8 MCCP (4)	-26.7323, 27.61472	Drilled on 2019-02-06
9 MCCP (5)	-26.7392, 27.6096	Drilled on 2019-02-06
10 MCCP (6)	-26.7413, 27.62599	Drilled on 2019-02-28
11 MCCP (7)	-26.7388, 27.61119	Proposed
12 MCCP (8)	-26.7356, 27.6208	Proposed
13 MCCP (9)	-26.7409, 27.60241	Drilled on 2019-02-27
14 MCCP (10)	-26.7493, 27.61818	Drilled on 2019-02-27
15 MCCP (11)	-26.7388, 27.60126	Drilled on 2019-02-27
16 MCCP (12)	-26.7405, 27.6043	Proposed
17 MCCP (13)	-26.7458, 27.5848	Drilled on 2019-02-28
18 MCCP (14)	-26.7396, 27.61991	Drilled on 2019-02-28
19 MCCP (15)	-26.7410, 27.62425	Drilled on 2019-02-28
20 MCCP (16)	-26.7426, 27.62979	Drilled on 2019-02-28
Existing water supply and abstraction points on Goosebay farm		
21 Hoenderhok boorgat	-26.75010, 27.63224	Rehabilitated
22 Dam 2 boorgat	-26.73768, 27.62795	Rehabilitated
23 Bloekombos boorgat	-26.7497, 27.63308	Rehabilitated
24 Lister engine	-26.7488, 27.60969	Operational
25 New Applicator windpomp	-26.73927, 27.62723	Rehabilitated on 2019-02-06
26 Goosebay hek windpomp	-26.7392, 27.60969	Operational
27 Existing river pump	-26.73927, 27.63357	Operational
28 Proposed extraction point (2)	-26.7432, 27.60977	Proposed
29 Proposed extraction point (3)	-26.7332, 27.62171	Proposed

Ref no	Coordinate (WGS 84)	Status
Existing water supply and abstraction points on Goosebay farm		
21 Hoenderhok boorgat	-26.75010, 27.63224	Rehabilitated
22 Dam 2 boorgat	-26.73768, 27.62795	Rehabilitated
23 Bloekombos boorgat	-26.7497, 27.63308	Rehabilitated
24 Lister engine	-26.7488, 27.60969	Operational
25 New Applicator windpomp	-26.73927, 27.62723	Rehabilitated on 2019-02-06
26 Goosebay hek windpomp	-26.7392, 27.60969	Operational
27 Existing river pump	-26.73927, 27.63357	Operational
28 Proposed extraction point (2)	-26.7432, 27.60977	Proposed
29 Proposed extraction point (3)	-26.7332, 27.62171	Proposed

CLIENT: PURE SOURCE MINE

DRAWING TITLE:
 Monitoring- and other water abstraction points on Goosebay farm
 DESCRIPTION:
 All monitoring, existing and newly drilled boreholes on Goosebay farm
 DATE: 2020-07-29 | SCALE (A3): 1:12 000

DRAWING NO: 1 of 2 | DRAWING VERSION: 13
 Projection: WGS 84

DRAWING PREPARED BY:
 MR. MADER VAN DEN BERG
 ML(PROF) IN LANDSCAPE ARCHITECTURE

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BOREHOLES AND DRILLING POINTS DATA SHEETS

LOCALITY AND CONTEXT

GOOSEBAY ECO ESTATE MASTER PLANS

GOOSEBAY ECO ESTATE LUXURY CABINS

GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS

GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE

GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPT

GOOSEBAY ECO ESTATE BUFFALO CAMP

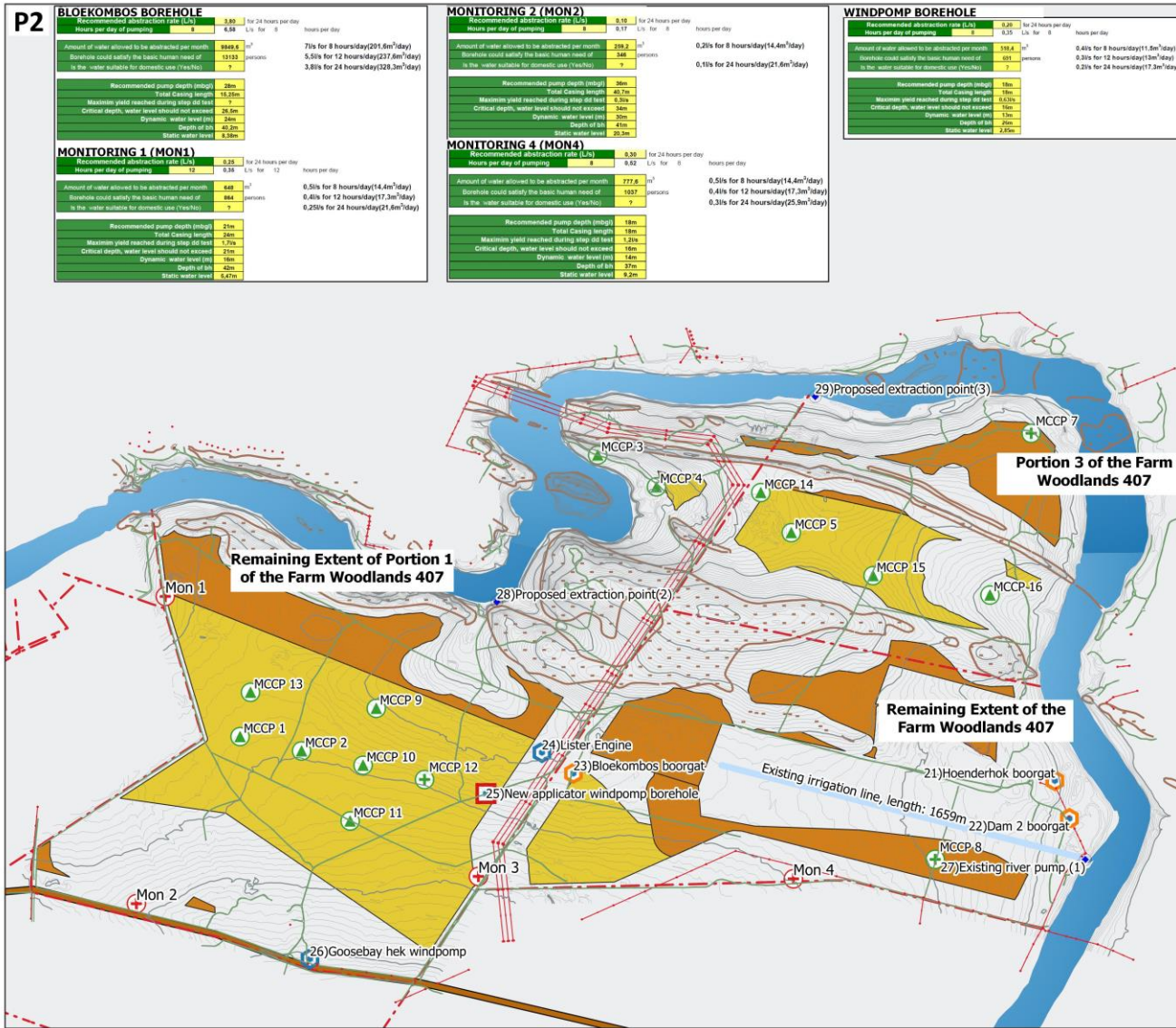
GOOSEBAY DAMS

BOREHOLES AND MONITORING POINTS

AGRICULTURE

MINING AND REHABILITATION

TELECOMMUNICATION TOWERS



Legend

- Farm boundaries
- S171 road
- Estimated sand deposit
- Estimated aggregate resource
- Rehabilitated boreholes
- Existing and operational boreholes
- Redrilled boreholes
- Noa Agencies monitoring boreholes
- MCCP boreholes completed
- MCCP proposed boreholes
- Existing river extraction pump

Ref no	Coordinate (WGS 84)	Status
Noa Agencies monitoring boreholes		
Mon 1	26 7402, 27 5914	Drilled on 2019-02-05
Mon 2	26 7550, 27 5937	Drilled on 2019-02-06
Mon 3	26 7543, 27 6059	Drilled on 2019-02-07
Mon 4	26 7541, 27 6204	Drilled on 2019-02-08
Monte Cristo Commercial Park (MCCP) additional boreholes		
MCCP (1)	26 74812, 27 5948	Drilled on 2019-02-05
MCCP (2)	26 74880, 27 59913	Drilled on 2019-02-07
MCCP (3)	26 75181, 27 61214	Drilled on 2019-02-06
MCCP (4)	26 75720, 27 61472	Drilled on 2019-02-06
MCCP (5)	26 75922, 27 62595	Drilled on 2019-02-06
MCCP (6)	26 76033, 27 62599	Drilled on 2019-02-28
MCCP (7)	26 74868, 27 61119	Proposed
MCCP (8)	26 75356, 27 62698	Proposed
MCCP (9)	26 74699, 27 60241	Drilled on 2019-02-27
MCCP (10)	26 74943, 27 60189	Drilled on 2019-02-27
MCCP (11)	26 75388, 27 60126	Drilled on 2019-02-27
MCCP (12)	26 74905, 27 60663	Proposed
MCCP (13)	26 74648, 27 59488	Drilled on 2019-02-27
MCCP (14)	26 75146, 27 61991	Drilled on 2019-02-28
MCCP (15)	26 74110, 27 62425	Drilled on 2019-02-28
MCCP (16)	26 74796, 27 62919	Drilled on 2019-02-28
Existing water supply and abstraction points on Goosebay farm		
21-Hoenderhok boorgat	26 75010, 27 61274	Rehabilitated
22-Dam 2 boorgat	26 75168, 27 61795	Rehabilitated
23-Bloekombos boorgat	26 7497, 27 61108	Rehabilitated
24>Lister engine	26 7488, 27 60969	Operational
25-New applicator windpomp	26 75067, 27 60723	Redrilled on 2019-02-06
26-Goosebay hek windpomp	26 75765, 27 59950	Operational
27-Existing river pump	26 75397, 27 61997	Operational
28-Proposed extraction point (1)	26 7433, 27 60777	Proposed
29-Proposed extraction point (2)	26 7332, 27 62171	Proposed
29-Proposed extraction point (3)		

CLIENT: PURE SOURCE MINE

DRAWING TITLE: Monitoring- and other water abstraction points on Goosebay farm

DESCRIPTION: Borehole result summary

DATE: 2020-07-29 **SCALE (A3):** 1:12 000

DRAWING NO: 2 of 2 **DRAWING VERSION:** 13

Projection: WGS 84

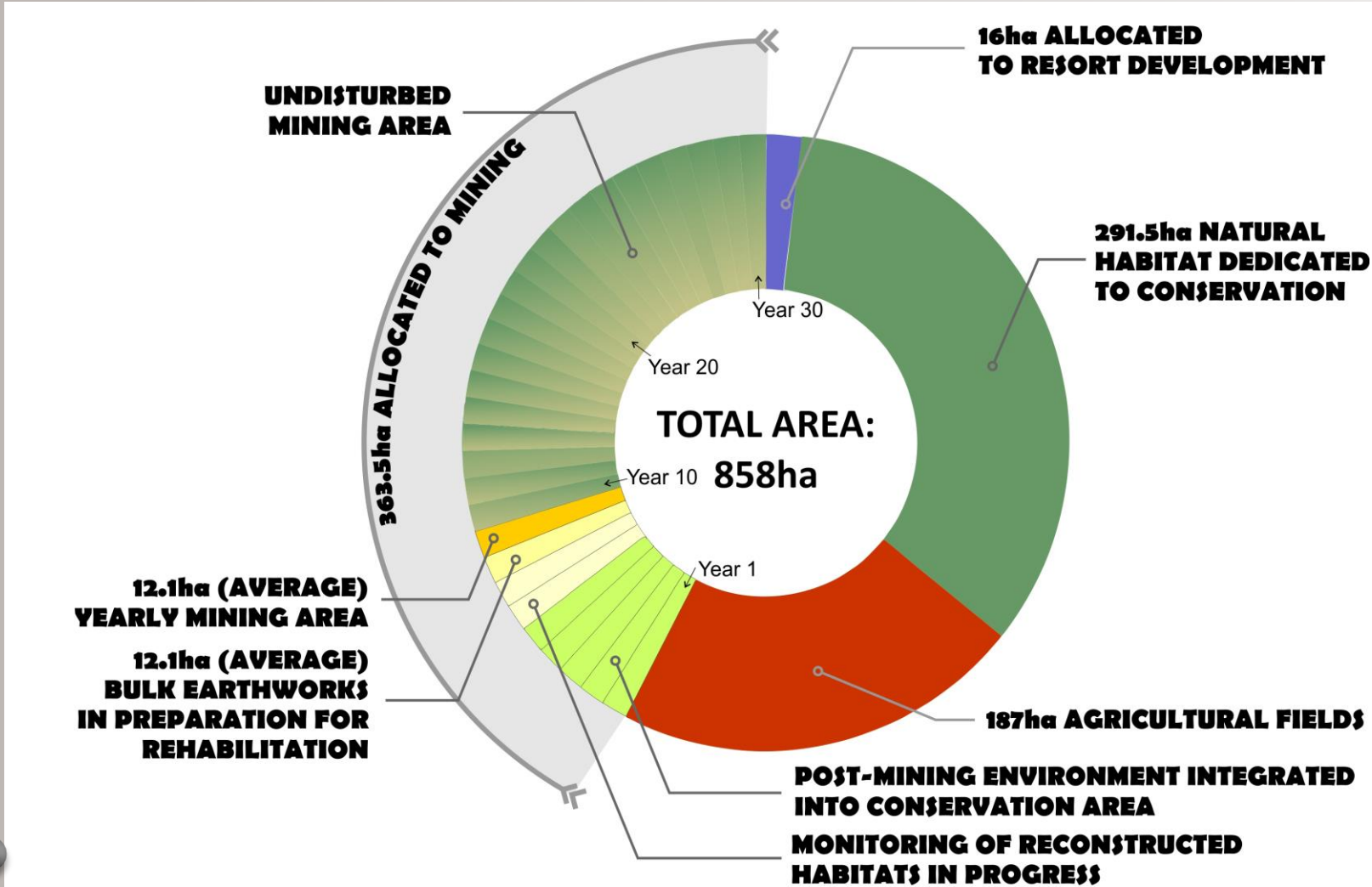
DRAWING PREPARED BY: MR. MADER VAN DEN BERG ML(PROF) IN LANDSCAPE ARCHITECTURE

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PROPORTIONAL LAND USE ALLOCATION DURING MINING

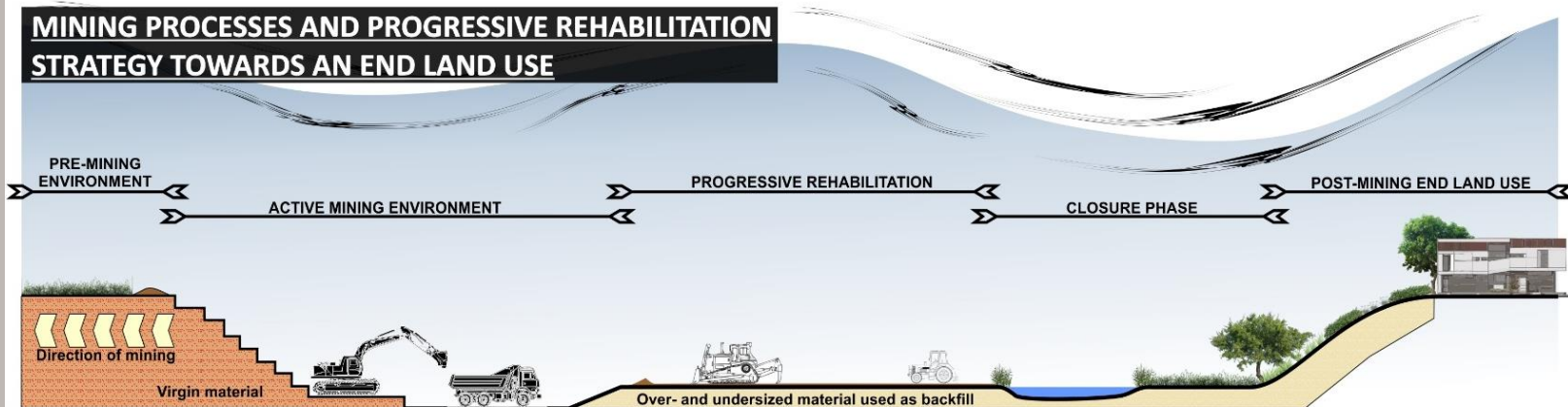
- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
- GOOSEBAY ECO ESTATE LUXURY CABINS
- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
- GOOSEBAY ECO ESTATE STABLES CONVERSION AND FIREPIT
- GOOSEBAY ECO ESTATE BUFFALO CAMP
- STOREROOM/SHED
- GOOSEBAY DAMS
- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS



PROPORTIONAL LAND USE ALLOCATION ACROSS THE APPLICATION AREA:

PROGRESSIVE REHABILITATION AND END LAND USE

MINING PROCESSES AND PROGRESSIVE REHABILITATION STRATEGY TOWARDS AN END LAND USE



Active mining environment: The sand deposit will be mined by means of excavators and front-end loaders, loading the raw product onto dump trucks, to be transported to the processing plant. At an advanced stage of mining, a conveyor system may be utilised instead of dump trucks. The mining method will implement a roll-over strategy.

Aggregate extraction and crushing will occur at the resource and loaded onto client's trucks. A mobile screen will separate the various aggregate sizes. Over- and undersized material, as well as the topsoil and some oxidised material will be used as backfill to create a safe and stable landscape profile.

Diamond prospecting will initially occur in the Northern Sand deposit via a drilling program. If suitable gravels are found, diamond extraction may proceed as per the method in the Scoping report.

Pre-mining environment (Status quo): The application area is currently a game farm with agricultural fields mainly along the southern boundaries. The sand deposits typically occur on a flat plain and are covered with grassland vegetation. The aggregate resource is located in areas where natural ridges occur. Most of the defined ridges have been excluded from the mining plan, and only resource areas on the flatter terrain are earmarked for mining. The potential for diamond mining occurs over the entire property, but prospecting in the Northern Sand deposit will enjoy priority. This may be followed by prospecting in other areas of the farm.

Progressive rehabilitation: Rehabilitation consists of various phases starting with bulk earthworks, followed by fine grading to achieve the desired topography. Waste material, mostly consisting of oversized particles from the screen or inert fines from the processing plant will be placed back into the pit as a filling material. Topsoil will be spread over this area as the final growing medium. Soil samples will reveal the chemical make up of the filling material and topsoil, in order to make corrections and ameliorations before planting. Planting will be done through the utilisation of farming equipment, and/or the planting of sods and other plants by hand. The aim is to establish a stable and safe post-mining environment to minimise erosion and to re-introduce a vegetation cover that is in coherence with the end

Monitoring and habitat reconstruction: The monitoring and maintenance of the rehabilitated area will coincide with habitat reconstruction that will either entail the establishment of a water course with wetland habitats, or the planting of grazing grass to benefit the game on the farm. Alien weed control will form part of this phase.

Post mining - end land use: The end land use is an eco/wildlife estate that was applied for by the VLDC Group shortly after acquiring the 3 farm portions. It was subsequently approved. The estate will consist of approximately 228 residential stands, including communal stands with resort and lodge developments. Further planning will occur to finalise a Master Plan that coincides with the landscape changes brought about by the mining.

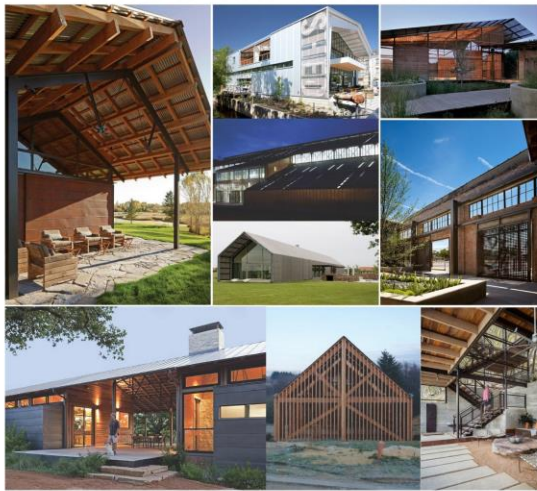
- LOCALITY AND CONTEXT
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- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
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- BOREHOLES AND MONITORING POINTS
- AGRICULTURE
- MINING AND REHABILITATION
- TELECOMMUNICATION TOWERS

MINING INFRASTRUCTURE CONVERSION

PHILOSOPHY TO POST-OPERATION USE OF MINING INFRASTRUCTURE

In an attempt to shift the paradigms that govern the perceptions of mining, one should investigate the concept of mining with a holistic approach towards its location. Mining should become the catalyst, a temporary and interim intervention, foreseeing a sustainable and site specific **end land use** after closure. This paradigm shift should dictate a new approach for an industry that is otherwise perceived as exploitative and exhaustive on the natural, social and biophysical environment. In line with the future development of Goosebay Canyon, mining infrastructure can be designed to support alternative functions after mining has ceased. The following examples explore the conversion of warehouse structures into functions that may support the future development. Exterior and interior designs are reflected in the images to stimulate a thought-process of post-operation land uses.

WAREHOUSE EXTERIOR



POST - OPERATION WAREHOUSE CONVERSIONS

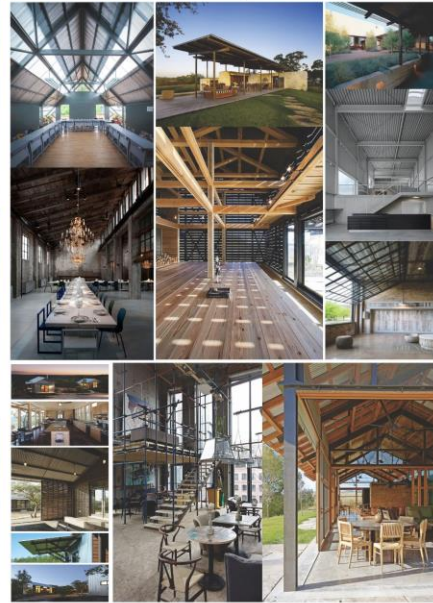
OFFICE



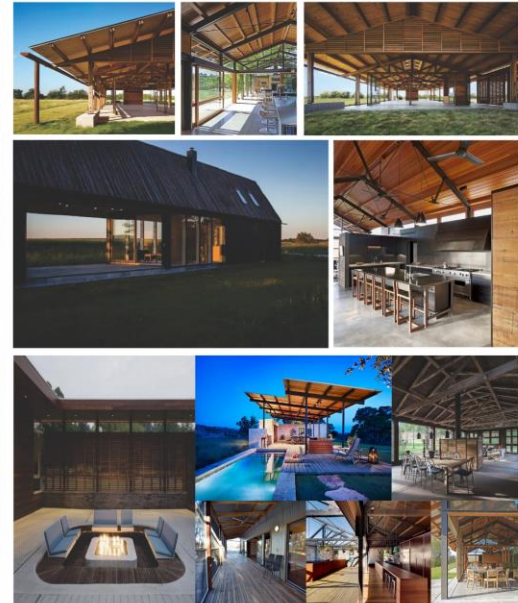
STABLES



CONFERENCE / FUNCTION



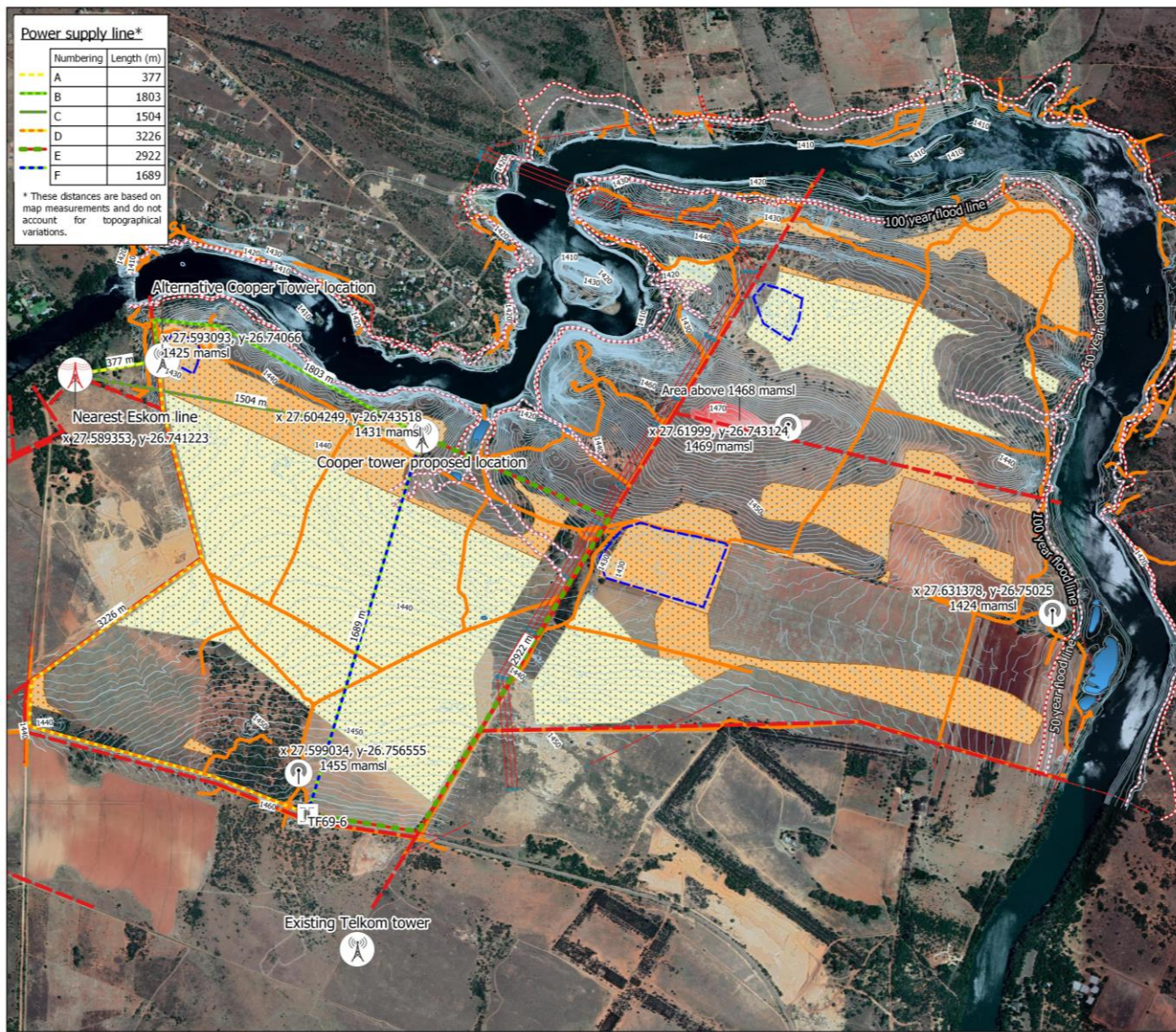
OUTDOOR ENTERTAINMENT



- LOCALITY AND CONTEXT
- GOOSEBAY ECO ESTATE MASTER PLANS
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PROPOSED TELECOMMUNICATION TOWERS

- LOCALITY AND CONTEXT
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- GOOSEBAY ECO ESTATE LANDSCAPE CONCEPTS
- GOOSEBAY ECO ESTATE CONFERENCE AND WEDDING VENUE
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Legend:

- Goosebay highest point
- 50 year flood line
- 100 year flood line
- Cadastral
- Existing dams
- Future dams
- Transmission line
- Goosebay tracks

Mining areas

- Aggregate resource
- Sand resource

Telecom and power

- Eskom distribution line
- Lattice tower
- Telecom tower
- Transformer

*mamsl - meters above annual sea level

CLIENT:
GOOSEBAY FARM (PTY) LTD

DRAWING TITLE:
 Goosebay Farm Telecommunication towers
DESCRIPTION:
 Location of proposed Telecommunication and data towers

DATE: 2020-05-27	SCALE (A3): 1:15 000
DRAWING VERSION: 3	DRAWING NO: 1 of 1
	WGS 84 - UTM 35

DRAWING PREPARED BY:
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