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Revision:

No.	Description	Date

Client

Signature: Date:

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Project Title:
Proposed New Msinsini Police Station for the South African Police Service on Portion 4 of the farm Clifton Park No.9219

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Signature:

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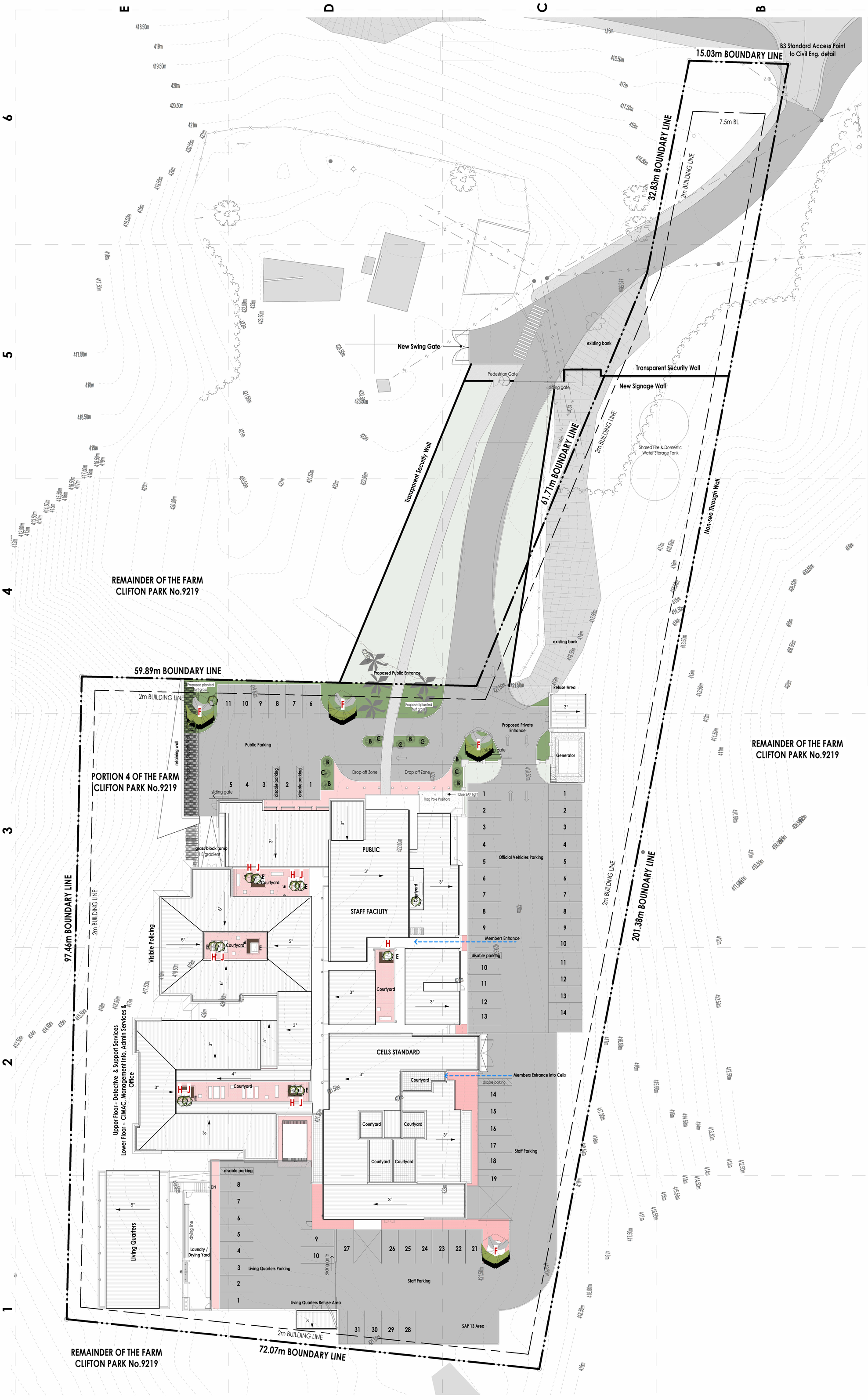
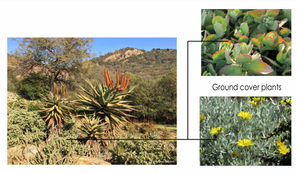


	Benchmark Inspiration	Description
A	Natural Boulder	Proposed large natural rock boulders of about 1.5m height to also act as bollard on site.
B	Large Aloe species	Proposed Aloe species plant reaching about 1m height max. Species as Aloe ferox.
C	 Ground cover plants	Proposed ground cover plants reaching maximum growth of about 300mm height. sepcies such as Kalanchoe longiflora and Gazania rigens
D	Medium- small natural rocks	Proposed medium to small natural rocks of about 0.5m height.
E	Brick as seating platform	Brick planter box and seat done to architect's detail.

	Benchmark Tree	Application
F	Yellow-wood tree	Large shed tree planted into the ground, reaching maximum growth of over 25m species such as Yellow-wood tree.
H		Proposed courtyard tree with non-damaging roots with limited height of 2-3m and container growth ready such as Dovyalis caffra (Kei apple tree).
J		Proposed courtyard tree with non-damaging roots with limited height of 2-3m and container growth ready such a Crossberry tree.

Grass Legend	Description	Area (m²)
	Continuous turf lawn grass of an approved species such as Berea/ LM prepared as detailed below.	252m²
	Natural rehabilitated grass as per contractor's landscaping specialist and approved methodology.	701m²
	Coarse aggregate for rock garden.	39m²

Plant Selection Notes:

- All Species names are indicative and must be confirmed as appropriate by an accepted landscaping/ botanical/ environmental expert.
- Input and shop drawings are required from the Contractor's landscaping/ botanical or environmental expert for pre-approval.
- All planting and vegetation to be indigenous to the area and suitable to the local climate.
- Provision for watering plants to be provided on site.

Landscaping Notes:

Preparation of soil for grass sods:
- Loosen existing topsoil throughout to a depth of 100mm and mix thoroughly with 2:3:2 fertiliser in the ratio of 20kg fertiliser to 150m ²of topsoil.
- Wet, level off and compact slightly on flat surfaces and mildly on inclined surfaces approved as per contractor landscape plan to suit selected plants.

Preparation of soil for trees
- Dig 900 x 900 x 900mm deep holes in soil for trees and place excavated material aside.
- Finish base of hole with fall in general direction of slope of site.
- Each hole must be inspected and approved by the landscape principal agent.
- Fill holes with a mix of two parts excavated soil and one part compost.
- Add and mix throughout one kg 2:3:2 fertiliser and 300g of bone phosphate.
- Compact slightly and allow for decrease in volume.

Plant Quality
- Acquire all plant material from a registered nursery.
- Plants to be typical of their species or variety with normal densely developed branches and vigorous and healthy root system.
- Plants to be free from damaged parts, parasites, fungus, disfiguring knots, insects, pests and infestation.
- Grass sods to be approximately 1000mm long and 500mm wide and of uniform thickness; sods to be clipped short and soil base to be free from stones and clods.
- Ground covers to be well bushed with high leaf density and height of 300mm above ground level, delivered ex nursery in minimum 4kg bag containers.
- Shrubs to be multi-stemmed with generous side branches and well bushed to ground; shrubs to be at least 500mm high as measured from crown of roots to outer leaf circumference, delivered ex nursery in minimum 4kg containers except where specifically described otherwise in the bills of quantities.
- Trees to be at least 1.5m in height as measured from crown of roots to average top of tree (not to highest branch) and stem diameter at least 25mm at ground level. Big trees to be in 1000litre bags and small trees to be in 200 litre bags.
- Pruning wounds to be limited to 25mm in size , showing vigorous bark growth all round.
- All plant material to be approved by the Principal Agent beforehand.
- Replace all dead plants free of charge.
- Store plants under nursery conditions as approved by the Principal Agent.

Planting grass sods
- Lay grass sods on wet prepared topsoil close together and fill joints and hollows with top soil.
- Allow for Area reduction.
- Roll surface to keep surface tolerance to a minimum and to allow a gradual change in slope at berms and embankments.
- Irrigate thoroughly after laying and rolling.

Planting ground covers
- Plant ground covers in prepared topsoil and in holes somewhat larger than the plant bulb and at least 200mm deep so that top of the bulb coincides with finished level.
- Work edges of ground cover beds upwards to a height of 100mm and compact.
- Irrigate thoroughly after planting.

Planting shrubs
- Remove shrubs from containers and plant in backfilled holes so that top of soil originally in the containers is level with the finished ground level.
- Compact around shrubs and form 500mm diameter x 150mm deep soil dams around each shrub.
- Wet thoroughly after planting with 25 litre of water per shrub.

Planting trees
- At distances from buildings, drains and freestanding walls that take into account the type of soil, especially expansive soils, and specie and mature height of tree- see drawings.
- Remove trees from containers and plant in backfilled holes so that top of soil originally in containers is level with finished ground level.
- Compact around trees and form 1000mm diameter x 150mm deep soil dams around each tree.
- Wet thoroughly after planting with 40 litres of water per tree.

Tree Supports
- Support every tree with 2.5m long x 50mm diameter treated eucalyptus stake driven 500mm into soil.
- Tie each tree to stake with two steel wires sleeved in 300mm long plastic hose-pipe section.

Precast concrete tree rings
- In two halves, size as shown on drawings.
- Place halves firmly and horizontally in soil dams around trees.
- Trim grass sods around tree rings where applicable.

Garden furniture
- Garden furniture: see drawings.

Landscaping Plan
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