technical documentation
6.1 Site layout

Counter-point scenarios. Integration of mine infrastructure in a community.
6.1 Site sections

Site section B

Site section A

Authorative movement on site
6.2

block A ground floor plan

counter-point scenarios. Integration of mine infrastructure in a community.
block A roof truss plan

6.2

counter-point scenarios. Integration of mine infrastructure in a community. Counter-point scenarios. Integration of mine infrastructure in a community.
6.2 block A roof plan

counter-point scenarios. integration of mine infrastructure in a community. counter-point scenarios. integration of mine infrastructure in a community.
6.2 block A sections & elevations

Philippa Nyakato Tumubwinee 25371615, submitted for requirements for MArch(Prof) department of engineering built information technology university of pretoria

NORTH ELEVATION

SOUTH ELEVATION

OFFICE BLOCK A_AR/sections&elevations/004

counter-point scenarios: integration of mine infrastructure in a community.
block A sections & elevations

6.2

counter-point scenarios: integration of mine infrastructure in a community. counter-point scenarios: integration of mine infrastructure in a community
counter-point scenarios. integration of mine infrastructure in a community.
counter-point scenarios, integration of mine infrastructure in a community, counter-point scenarios, integration of mine infrastructure in a community.
block B roof truss plan
6.2 block B roof plan
block B sections & elevations

counter-point scenarios. integration of mine infrastructure in a community. counter-point scenarios. integration of mine infrastructure in a community
block B sections & elevations

counter-point scenarios, integration of mine infrastructure in a community
6.2 Exhibition workshop spaces roof truss plan
6.2 Exhibition workshop spaces roof plan
Exhibition workshop spaces sections & elevation

SECTION 1
1:50

EXHIBITION, WORK & GATHERING AREA_AR/sections&elevations/001

counterpoint scenarios, integration of mine infrastructure in a community, counterpoint scenarios, integration of mine infrastructure in a community
6.3 Materials and structure
counter-point scenarios integration of mine infrastructure in a community
**Materials and structure**

**DETAIL AR/DE/012**
connection of greenhouse and overhead steel frame to 345mm adobe brick wall

**DETAIL AR/DE/013**
connection of greenhouse to overhead steel frame

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counter-point scenarios, integration of mine infrastructure in a community.

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Materials and structure

75x75x6mm steel angle iron painted black
M20 6Dca stainless steel bolt with nylon washers as per manufacturers specifications
10dia galvanised threaded steel brace welded to 75x75x6mm steel angle at 45mm centres at 60°
200dia 6ango poles to be treated and edges to be finished with steel capping.

3mm tension cable tied to eye hooks and 500mm deep steel beam above and adjusted to specified height
3mm eye hook nut&bolt combo with nylon washers at max 2000mm centres
10mm steel cleats bent to profile and welded together at max 1000mm centres bolted by M20 threaded galvanized steel bolts to 25mm concrete capping with nylon washers as per manufacturers specifications

DETAIL AR/DE/014
bracing

section a
showing 500mm deep steel frame

plan view
at brace

DETAIL AR/DE/015
end connection of greenhouse membrane

counter-point scenarios, integration of mine infrastructure in a community, counter-point scenarios, integration of mine infrastructure in a community
Materials and structure

DETAIL AR/DE/016
s-rib corrugated gutter

DETAIL AR/DE/017
wall flashing detail
Materials and structure

Welded iron sheeting screwed on 125x75x5mm steel top-hats at 1200mm centres screwed on with stainless steel self tailing screws with nylon washers to manufacturers specifications.

125x75x5mm top-hats at max 1200mm centres painted with Twinec totem color.

150x6mm galvanized poles to be treated and edges to be finished with steel capping, with 125x75x5mm steel top-hats fixed at 1500mm max centres with stainless steel self-tapping screws, with nylon washers.

150x6mm galvanized poles to be treated and edges to be finished with steel capping.

200x6mm galvanized poles to be treated and edges to be finished with steel capping.

300x200 re concrete footings as per detail.

SECTION G

STALLS SOUTH ELEVATION

Integration of mine infrastructure in a community. Counter-point scenarios.
Ventilation systems - evaporative cooling