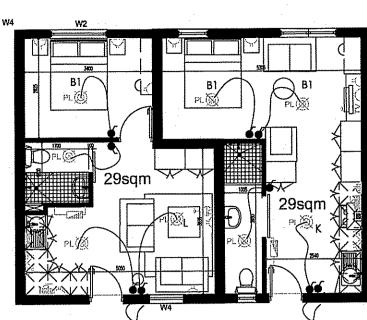


Type 2a Type 1 One Bed Room One Bed Room Apaprtment:29m<sup>2</sup> Apaprtment:35m<sup>2</sup> Balconies: 0m<sup>2</sup> Balconies: 4m<sup>2</sup> Fenestration ≠ 2.9m² Fenestartion = 5m<sup>2</sup>

Total Units:111no.

**ELECTRICAL LEGEND:** 1 WAY SWITCH LOW LEVEL DOUBLE HIGH LEVEL DOUBLE SOCKET TELEVISION/SAT PL (S) PENDANT LIGHT E WALL LIGHT
(E = external) COOKER SWITCH ESKOM METER + DB
TO BE IP54 RATING OR
BETTER & COMPLY WITH SANS 10142-1 & SANS 176 CW COLD WATER POINT



Type 2b

One Bed Room Apaprtment:29m<sup>2</sup> Balconies: 0m<sup>2</sup> Fenestration=\4.28m<sup>2</sup>

Total Units:51no.

One Bed Room Apaprtment:29m² Balconies: 0m<sup>2</sup> Fenestration = 3.68m<sup>2</sup> Type 4 **Batchelor Bed Room** Apaprtment:21m<sup>2</sup> Balconies: 0m<sup>2</sup> Fenestration=\3.38m<sup>2</sup>

Total Units:50no.

1sqm

Sien aangchegle voorwaarde.

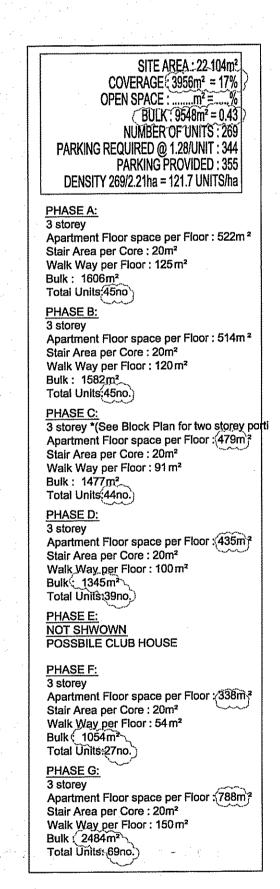
l Hana imiqathongo ebekiweyo

See attached conditions

Total Units:6no.

**APARTMENT UNIT TYPES 1:50 NEFFENSAAN for COMBINEDDEV** 

Total Units:51no.



-Rain water downpipes (To be positioned close to corners or recesses of the rearest return wall) -Sewerage and waste pipes (May not be visible on external elevations of the second or higher storeys, ground floor comprises the 1st storey) -Air conditioning units (May not be placed on the outside of the building or on the roof unless screened from the -Television antennae or satellite dishes (May not be placed on the outside façade of the building facing the street or on the roof)

-TV ducting (Applicant should at minimum provide ducting to accommodate television cabling for each dwelling unit, from within the unit to the roof space of the development, of which that unit forms a part)

28.03.17 Generally AMENDED PER LOA. REQUESTS 23.03.17 30.01.17 Generally showing Areas + Sunits incuded to suit 269 initial Units the specified Revi Date Done by Checked

s and sub-contractors

Contractors are to locate and identify existing services on site, and are to protect these from damage throughout the duration of Work Contractors shall be responsible for ensuring the structural stability of all components of their work and ascertaining that the main structure is capable of supporting all loads applied

This drawing is not to be to be used at all times. Any queries or variations must be reported to Albe clarification, prior to the

tors are to ensure that Contractors are to ensure that their work, on site, is shown on this adequately protected at all times, during construction with local authority and the account of the construction and the construction are the construction and the construction and the construction are the construction and the construction are the constr and the responsibility for any damages incurred lies with the contractor until final hand-over of the site. Contractors and sub-contractors are to ensure that all components, glazing panels and shop-fitted Items fit through all doorways, stairwells and lifts. This drawing is not to be scaled. Figured dimensions are Any queries or variations arising from any of the above, must be reported to Albertyn Viljoen Nortjé Architects for FOR CONSTRUCTION clarification, prior to the commencement of any works.

DRAWING STATUS: ISSUE DATE FOR INFORMATION FOR APPROVAL 19.05.16 FOR CONSENT FOR COSTING AS BUIL DTHER

parking provided 11

Bellville, 7535 SOUTH AFRICA GREEN BUILDING COUNCIL SA G V 1

Ground Floor, Block 2A, Ti +27 (0)21 948 1877
Typer Terraces 2Fi +27 (0)21 948 3455 Tyger Terraces 2 Fi +27 (0)21 948 34

DJ Wood Way, Bellville Ei Info@avna.co.za

PD Box 499

MEMBER ORGANISATION architects

Project no. March 2016 2016/15/03 RESIDENTIAL DEVELOPMENT Architecti Francols Norije Erf 33008, PAARL Date Drawing no. NEFFENSAAN DEVELOPMENT SITE PLAN & TYPICAL 1:100/500@ A1 APARTMENT UNITS

NATIONAL DESIGNIN NOTES: MASTER CONSTRUCTION NOTES Only applicable where deemed necessary to the material and construction detail. All discrepancies to be verified in writing to the architect / designer prior to SANS 10400-A:2010 Part A: General principles and Main and Sub Contractors to ensure that all work is done in strict accordance with the latest regulations and requirements of related authorities including: (a) National Building Regulations (NBR) (c) Local Municipal Authority (By-laws) (d) CSIR - "Technical Guide to a Good House Construction" (e) National House Building Registration Council (NHBRC) A18 Control of Plumbers and (f) All other relevant Authorities Plumbing Work Quality of materials and workmanship to compty with the latest relevant Codes & Specifications of SANS, BSS and the minimum standards of Standard Preliminaries (JBCC) and the Model Preambles for Trades (ASAQS 1992) and where applicable Project Specifications and/or Bill of Quantities. This drawing to be read in conjunction with other Project Drawings, Construction Documents and Principal Building Contract. Contractors must view the site and works to allow for everything necessary to complete the works. Part F: Site operations Contractor/s to check the details on this drawing for compilance with standards of good building practice with particular reference as per Clause "Authorities" and report any discrepancies in writing to the Architect/ Designer. F4 Preparation of Site No selling out is to commence before the site boundary pegs position are verified and pointed out by the Employer / Land Surveyor. F10 Builder's Sheds The Contractor to ensure that the correct setting out including that from the boundary and building lines is done prior to commencement of work. F6 Control of Unreasonable The Contractor to verify all Council, Eskom and Telkom services and existing work/s which is the responsibility of the Contractor. Levels of Dust and Noise The Contractor to verify all levels, heights and dimensions on site and check the same against drawings before putting any work in hand. Any errors, discrepancies or omissions to be immediately reported to the Architect/ Designer for clarification before any work is put in hand. SANS 10400-1990 All paint, vamish, sealants and other finishes to be SANS approved and applied in strict accordance to manufacturers specification. **PART H: FOUNDATIONS** All existing trees on the site to be retained, unless otherwise instructed by the Architect, and protected for the duration of building operations DRAWING STATUS

The Contractor to ensure that the latest drawings is used on site prior to the commencement of work. Only the latest construction drawings issued by the SANS 10400-K:2011 Architect/ Designer as "Construction Drawings" with a Date may be used for construction of the Works (JBCC). PART K: WALLS All superseded and other drawings must be removed from the site. One set of the Local Authority Approved Drawings to be kept on site all times. One set of the latest construction drawings to be kept on site all times, and available for the Architect/ Designer and other Authorities. SANS 10400-T:2011 The Client to ensure that the Contractor in terms of the Occupational Health and Safety Act 85 of 1993, with specific reference to the Construction Part B: Structural Design Regulation to comply to the minimum requirements. GROUND WORKS STRUCTURAL DESIGN Protect all existing trees to be retained with a suitable enclosure, 1.5x1.5m in size, before any work is done or demolition commences 1.8m high Fencing with fabric to be erected on site boundary to mitigate dust problems during demolition. structural system of any building On windy days the areas worked on to be sprinkled with water periodically to control dust generation. shall be carried out in Remove all building rubble after Demoiltions is completed. Remove excess fill (from others), assume average of 200mm and remove from site. accordance with SABS 0160 Remove ±50mm natural vegetation and compact to 95% AASHTO, Excavate for foundations, depth ±600mm below NGL. Concrete to foundations to be 20Mpa after 28 days and sized as follows; 750(w)x250(h)mm for 250mm walls; 600(w)x250(h)mm for 210mm (for loads) and but not limited to: (a) SABS 0100 (for structural walls;600(w)x200(h)mm for 110mm walls. All to be verified by and executed to the satisfaction of the structural engineer. All foundation walls to be concrete filled with brick-force overy course. (d) SABS 0161 (for Build in a 375 micron SABS approved Damp Proof Coarse (DPC), tapped and taped over the entire length of the external walls. (e) SABS 0162 (for structural All joints to be sealed and product to be installed in accordance with manufacturers instructions and details. Provide 375 micron SABS approved Damp Proof Coarse (DPC) above, below & around all external doors & windows. (9) SABS 0164 (for structural Surface bed to be 100mm thick, 20 Mpa concrete surface bed on 250 micron SABS approved Damp Proof Membrane (DPM) underlay, laid on ± 50mm clean sand and compacted to 100% AASHTO. (to be verified by engineer) inderlay (DPM) to be overlapped and taped to stepped Damp proof coarse (DPC) in cavity perimeter walls and where it connects to internal DPC's. RESPONSIBILITY FOR Excavated fill to be compacted in 150mm layers to 90% AASHTO and treated with termite polsoning. Proof of compaction must be provided. DESIGN AND Floor finishes as indicated on plan applied to minimum 40mm thick screed. Screed to be cast in 3.5 x 3.5m blocks with open joints at such intervals, CONSTRUCTION correlating with construction joints in surface beds. SABS approved jointing strips to be used in surface bed joints accordance with the manufactures spec. and detail. Floor finish to be level throughout inside of building and to line up with construction and screed joints. The total thickness of screed plus floor finish to be 50mm. ENGINEERING & STRUCTURAL WORKS all structural and concrete works to be designed by a structural engineer appointed by the Client. The engineer to specify all foundation, retaining walls, nasonry/ bricks, columns, plers, concrete slabs, eye brows, beams, and steel works (Structural). all foundations specified on drawings to be verified with engineer. Provision to be made for steel where the soll conditions require stability. ement Maxi bricks to have a minimum 7MPA compressive strength. (to be verified by engineer) Bricks to be laid in stretcher bond in class 2 mortar, with 2,5No. galvanised brick wall ties per 1m²of wall surface, with brick force built in every fourth coarse proved precast concrete lintels to be built in over all door and window openings with a 300mm bearing length at each end. Brick-force to be built in at a continuous 150mm wide, 250 micron thick damp proof coarse to be built into the cavity closure, lintel and cill detail to the perimeter of all window and door penings. Brick-force on parapets and gables or balustrade walls to be used every 3 brick courses. ecast pretensioned hollow core concrete floor slabs by specialist to be used for all suspended concrete slabs. Installation to be strictly in accordance with the manufacturer's (TOP FLOOR) details and to be accompanied by structural engineers details and specification. Planks to receive a 40mm steel mesh einforced screed topping throughout. (All to be to be verified by structural engineer). Floor finishes as indicated on plan applied to minimum 40mm thick screed with tile joints aligning with control joints. Screed to be cast continuously over mesh, with grinder cut control joints, 10mm deep, cut on a 3.5 x 3.5m max grid or intervals to all screeded areas. Floor finish to be level throughout inside of building and at consistent falls as indicated on plan on walkways and as elsewhe The total thickness of screed plus floor finish to be 50mm. overed walkways to be constructed in a similar fashion with screed laid to a 2% gradient away from the building towards the edge, with a minimum nickness of 50mm at the edge. Walkway slab and adjacent wall to be waterproofed with SIKA Cemflex and membrane applied below the screed for half a eter on slab and up the face of the cavity wall for 150mm before screening and plastering commences. Provide a bitumen impregnated two ply felt, horizontal joint, under all concrete slabs, and provide a polystyrene vertical joint between wall and slab. Provide a construction joint along all such joints between slab and masonry, internal and external and seal with polyurethane sealant. Provide 5 mm plastered V-joints between concrete and masonry works nm thick UV stable polyester, polymer modified, bitumen waterproofing torch on membrane. Membrane torch-fused and fully sealed to primed surface, on 1000mm centers, fixed to a 220 x 44mm PAR treated SA pine beam (grade 7), parapet walls and walkway beams supports. Splicing connections of rafters

50mm min. thick screed laid with fall to fused outlet spouts, all in accordance with manufacturer's specification. 114 x 38 mm wall-plate to be anchored down by 30 x 1.6mm thick gms hoop irons. Hoop iron to be tied back into walls with a minimum depth of 600 mm. toop irons to be folded up and over the wall plate and rafter, and to be natled down to timbers at both ends. G.m.s brackets / hangers to be used to fix rafte parapet wall ends and support beams in accordance with the manufacturers recommendations. All fixing details to be verified by structural engineer l timber used in the erection of the building to be treated against termite and wood borer attack and fungal decay in accordance with SANS 10005. 5mm thick Concealed fixed metal roof sheeting, produced from COLORBOND™ sheet metal. Roof slope 3,5deg., fixed in accordance with manufacturer's recommendations to 75 x 50mm treated SA pine purlins @ 900mm centers, fixed to 152 x 50mm treated SA pine (grade 7) rafters @

to structural engineers design. PAR beam of be fixed to support walls with G.m.s brackets / hangers as described above. Structural engineer to verify design nd specifications. Apartment separating walls to be extended to under roof sheeting and corked with cement plaster to maintain fire barrier All timber roof structure to stop against separating walls, no bridging of continuous timber over walls allowed. All flashings, poly-closers and fixings included in roof installation. Flashing material and colour to match roof sheeting.

ROOF INSULATION (HABITABLE SPACES ONLY) Numinium foil faced radiant barrier insulation installed over purlin with aluminium side facing the top.

130mm thick, Non-combustible, light weight fibre glass wool thermal ceiling insulation, 12kg/m³, closely fitted with ends butted firmly between rafters and laid oose on brandering between roof timbers, all in accordance with manufacturer's recommendations. Minimum total R-value to be: 3,38m2 KW. PERGOLA CONSTRUCTION:
Hot dipped galvanised 75 x 75mm Cold formed square tubing column on 300x300x200mm concrete foundation as described above, bolted to hot dipped galvanised extruded 80 x 40mm square tubbing frame to form pergola edges. Steel slats (or cleats for timber slats) welded to frame and all holes etc machined in steel before galvanising. The detail and specification of galvanised mild steel fixing plates and fixings to be confirmed by structural engineer

6,4mm thick Flush plastered plasterboard ceiling under timber roofs only. Boards fixed print side up, with 25mm plasterboard screws, at 150mm centres, to 38x38mm brandering at 400mm centres in one direction. All joints to be covered with plasterboard tape, fixed over joints (double over butt joints) and then plastered with 3mm to 6mm thick skim plaster, all applied and fixed in accordance with the manufacturers recommendations

Soffit to precast concrete slabs to act as ceiling in other spaces. Precast concrete slab soffit finished by filling any holes and smoothing down surface before painting. All conduits to run in screed above slab with neat holes for lights etc drilled through slab to no more then conduit diameter. Otherwise to be corked All walls are to be finished off with smooth 10mm thick single coat cament plaster, with 1 cement to 4 sand mix. All plastered walls, except where tiled to be

finished with a primer and two coats of high quality paint. Colour scheme to Client choice and satisfaction. Paint to be suitable for internal or external application and for substrate applied to. Paint to be applied according to manufacturers specifications. SHOWER, BATH SURROUND AND SPLASH-BACK WATERPROOFING

Apply SIKA Cemflex Acrylic based Emulsion Waterproofing and bonding agent with Membrane, in accordance with the manufacturer's instructions, to clean brickwork and plaster joints, to whole splash back or shower area to be tiled or painted. Smooth plastering to follow once membrane and emulsion has cured according to manufacturers requirements. Take care not to damage waterproofing layer during plastering or other building activities. LIGHT AND VENTILATION

il spaces are designed to have a min. 10% of the floor area as glazed fenestration of that 50% to be openable for natural ventilation. ALUMINIUM WINDOWS AND DOORS tandard Wispeco aluminium windows, sliding doors and frames with natural anodised finish. Refer to schedule. All glazing and framework to comply with

Aluminium frame profiles to be protected against damage when installing. All dimensions and opening sizes to be checked on site. Refer to adjoining specification for Deemed to Satisfy Fenestration Energy Calculations and glazing specifications. TIMBER DOORS Purpose made timber doors and frames frames by specialist manufacturer. All glazing and framework to comply with SANS 0137, 1263, SANS 10400 Part I & Part XA. Frame stiffness, airtightness to be SANS 613 certified.

Paint to components be suitable for external application and for substrate applied to. Paint to be applied according to manufacturers specifications All dimensions and opening sizes to be checked on site... Refer to adjoining specification for Deemed to Satisfy Fenestration Energy Calculations and glazing specifications

STORMWATER DRAINAGE: Rainwater reticulation design from down pipe spout to where it leaves site according to civil engineers design. Rainwater to surface drain on parking areas to permeable paving and retention ponds as per civil engineers designs.

Civil engineer to specify kerbs and inlets accordingly. All pipe sizes, gradients and materials for the stormwater reticulation system as per SANS 10400 design and specifications. Il stormwater drainage work to be carried out in accordance with local authority's drainage by-laws & regulations.

DRAINAGE
Closed system to conform to National Building Regulations. First R.E. to be min. 450mmm below ground level with a min. fall of 1:60 and a max. fall of 1:40. Single stack system design proposed, covering three apartments per stack over three levels, with accessible rodding eye in top apartment and oneway air

A Central hot water system with Insulated tanks and Heat pumps to be installed on flat roofs in position indicated, to comply with SANS 10400- XA, SANS 1307, SANS 10106, SANS 10254 and SANS 10252-1. Requirements for water installations in buildings shall be in accordance with SANS 10252-1 and SANS 10254. All hot water service pipes shall be clad with insulation with a minimum R-value in accordance with table 1 of SANS 10400- XA.

All electrical wires in walls, floors, concrete soffits and ceilings to run in SABS approved conduits

The refuse room is constructed to be rodent proof in accordance with the Government Rodentproof Regulations. The area should further be rendered roder free by the use of rodent traps, etc in accordance with the above mentioned regulations.

Revision.

to leave no big openings in slabs. WALL FINISHES: SANS 0137, 1263, SANS 10400 Part N & Part XA, as well as AAAMSA requirements. Frame stiffness, airtightness to be SANS 613 certified. intake valve in roof void. **SCALE 1:500**