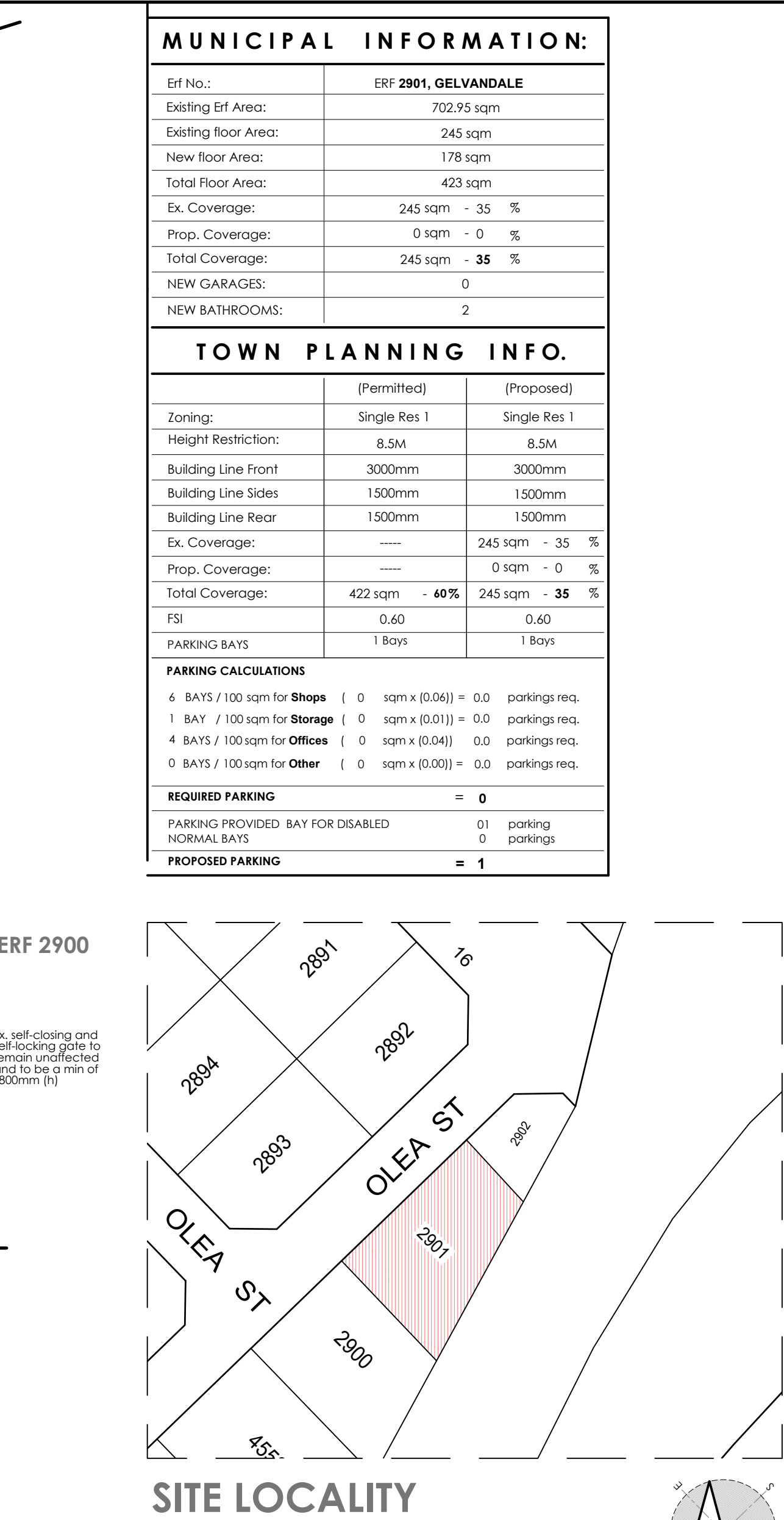




APPLICATION OF SANS 10400-XA (Ed.2)				
ZONE 4 - CLASSIFICATION H4 / Dwelling Houses				
		REQUIREMENTS	ACTUAL	STATUS
1	DESIGN	The orientation is in accordance with the requirements of 5.1	Building facing North/South with longest axis orientated East/West	In order
2	SHADING	The shading is in accordance with the requirements of 5.2	See Fenestration calculations	In order
3	FENESTRATIONS & ROOF LIGHTS	The fenestration is in accordance with the requirements of 5.3	See Fenestration calculations	In order
4	FLOOR INSULATION for under floor heating	The floors are in accordance with the requirements of 5.4 5.4.1. Surface bed (Heated) 5.4.2. Suspended (Exposed) R-value $\Rightarrow$ 1.00	Under slab (Heated): mm W/m.K R-Val. Lambdaboard 000 0.024 0.00	N/A
			Total R-value: Req. $\Rightarrow$ 1.0 0.00	
			Suspended Floor (Exposed): mm W/m.K R-Val. Lambdaboard 000 0.024 0.00	N/A
			Total R-value: Req. $\Rightarrow$ 1.0 0.00	
5	EXTERNAL WALLS Surface density > 270kg/m²	The external walls are in accordance with the requirements of 5.5 (Table 6) Zone 4: 50mm Cavity wall: R-value $\Rightarrow$ 0.6	External wall: mm W/m.K R-Val. Outer Air-film (1/20) 1000 20 0.05 15mm plaster 015 0.75 0.02 110mm Brick 110 0.82 0.13 Air-spaces 000 6.8 0.15 Cavity (Lambdaboard) 000 0.024 0.00 110mm Brick 110 0.82 0.13 15mm plaster 15 0.75 0.02 Inner Air-Film (1/9.4) 1000 9.4 0.11 Total R-value: Req. $\Rightarrow$ 0.60 0.61	In order
6	ROOF & CEILING ASSEMBLY	The roof and ceiling assemblies are in accordance with the requirements of 5.6 Zone: Direction of Flow: 4 UP 23" Tiled roof with horizontal ceiling	23" DUAL PITCH ROOF mm W/m.K R-Val. Outer Air-film (1/20) n/a n/a 0.05 Tiled roof 0.00 53.00 0.00 Air-space & Sloitation n/a n/a 0.51 Isover Aerolite insulation 50.0 0.044 1.14 Isover Aerolite insulation 75.0 0.04 1.88 Gypsum Ceiling 6.40 0.17 0.04 Inner Air-Film (1/11.0) n/a n/a 0.09 Total R-value: Req. $\Rightarrow$ 3.7 3.71	In order
7	BUILDING SEALING	The building sealing is in accordance with the requirements of 5.7	A foam or rubber compressible strip or a fibrous seal to restrict air leakage shall be fitted to each edge of an external door and other such opening that serves a habitable room. The maximum air leakage for windows and doors shall comply with the requirements of SANS 613.	In order
8	HOT WATER Classification H4 - Dwelling house	The building hot water is in accordance with the requirements of 6.1 Persons per Bedroom: 2 Number of Bedrooms: 4 $\frac{2}{4} \times \frac{2}{8}$ Persons per bedroom x 4 Number of bedrooms 8 Occupancy	Average annual hot water usage: 115 L/p/d Annual hot water consumption: 115 x 8 = 920 L/p/d Speculated 24hr hot water @ 60°C min: 50 L/p Minimum solar hot water storage: ((50)*1.5) x 8 = 600 L/p Speculated 24hr hot water @ 60°C min: 50 L/p Minimum heat pump hot water storage: 50 x 8 = 400 L/p	In order
	PIPE INSULATION (hot water pipe)	Internal pipe diameter $\leq$ 80mm: Minimum R-value of 1.00	Closed cell elastomeric thermal insulation mm W/m.K R-Val. 38 0.036 1.06 Total R-value: Req. 1.0 1.06	In order
9	LIGHTING Classification H4	The building lighting is in accordance with the requirements of 6.2	LED & CFL deemed to comply with Table 12 for H3 & H4	In order

[illegible][illegible]

MUNICIPAL SUBMISSION

ADDITIONS AND ALTERATIONS ON **ERF**
2901, GELVANDALE , PORT ELIZABETH
 FOR **Mr & Mrs Abader**

BLACKHOUND
ARCHITECTURE & RENDERING

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MUNICIPAL INFORMATION:

ERF NO:	2901, Gelvandale	
ERF AREA:	702.95 sqm	
EXISTING AREA:	245 sqm	
NEW AREA:	178 sqm	
TOTAL AREA:	423 sqm	
EX. COVERAGE:	245 sqm	- 34.85%
NEW COVERAGE:	0 sqm	- 0.00%
TOTAL COVERAGE:	245 sqm	- 35%
NEW GARAGES:	0	
NEW BATHROOMS:	2	
POOL:	NO	
BOUNDARY WALLS:	0 M	
AGE OF BUILDING:	<60	



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