

SANS 10400 XA

Roof Assemblies SANS 10400 XA 4.4.5

Min total R-value for Zone 5 = 2.7
 Heat flow direction : Down
 R-value of roof material Clay Tile : 0.48
 R-value ceiling : 0.05 R-value Air-space: 0.28
 Required R-value insulation 2.17
 SANS 204-4.3.6
 Generic Fibre added - Density 10-18 kg/m.cube.Sans 204-4.3.6
 Flexible Fibre Glass Blanket :100mm thick.

External Walls - SANS 10400 XA 4.4.3

Min. M 200 skin masonry , plastered externally and internally.
 with R-value of 1.9

Hot Water Supply - SANS 10400 XA 4.1

No. of People H4 4
 Volume of Hot water/day 100 L
 50 % - from- geyser
 50 % - from- heat pump
 Pipe cladding : All hot pipes to be less 80 ø to be clad
 with Polyurethane foam by specialist.

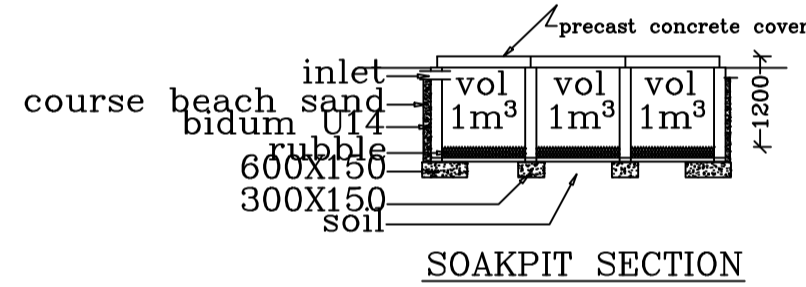
Energy Demand AND Consumption (H4)

SANS 10400 -0 AND SANS 10114-1

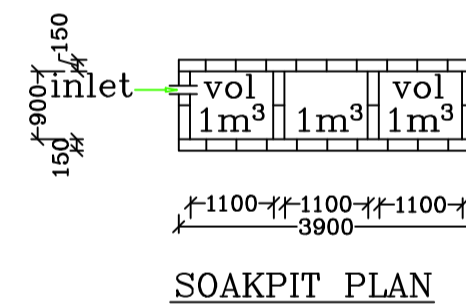
TOTAL FLOOR AREA 326 X 5 = 1630 kW
 Energy demand (w/m.sq.) X 5
 Energy consumption (kW/m.sq.) X 5
 Max energy demand 326 X 5 = 1630 W/m.sq

| Light type | Watts | Qty. | Total Watts. |
|--------------|-------|------|--------------|
| Energy Saver | 15 W | 13+5 | 270 Watts. |
| Energy Saver | 11 W | 5+1 | 66 Watts. |
| TOTAL | | | 336 Watts |

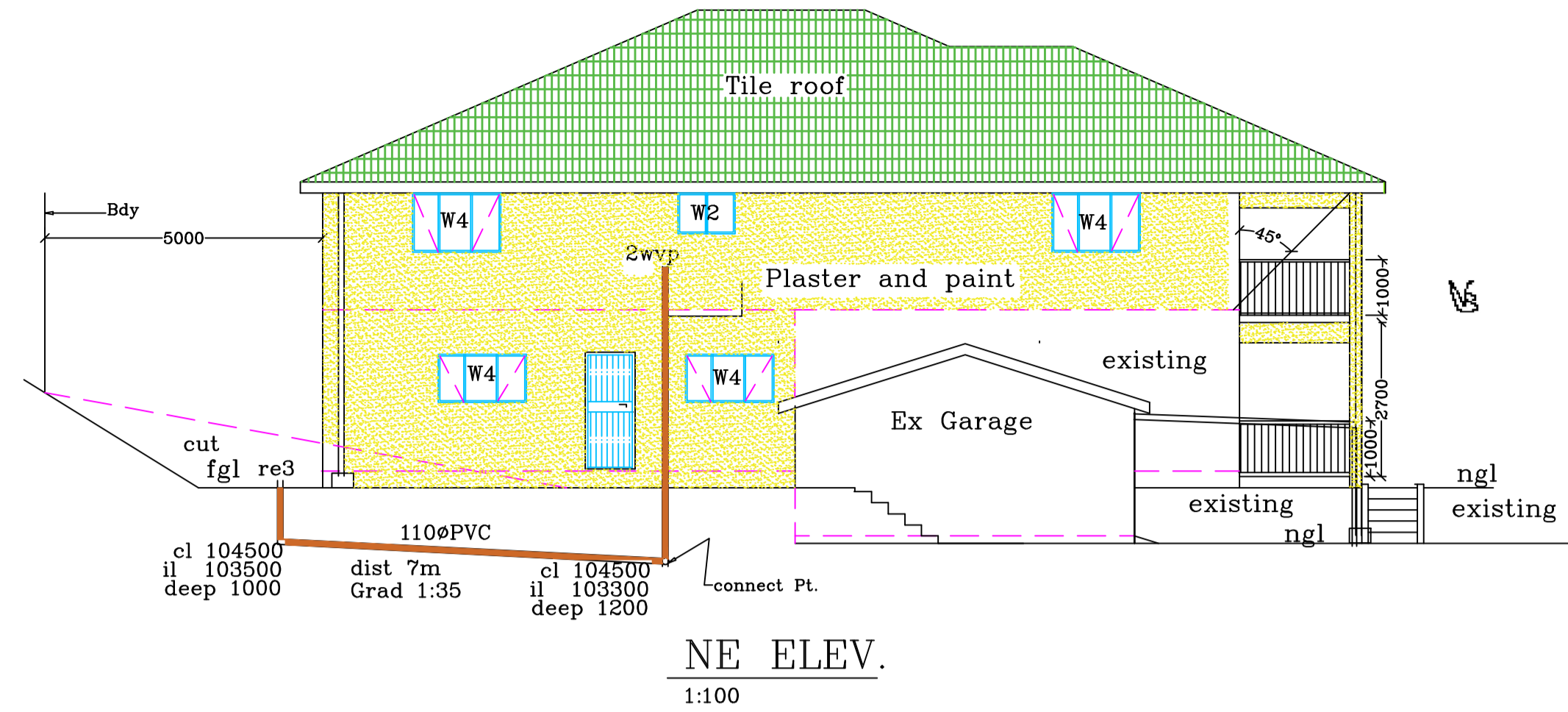
Total Energy demand W/m.sq. = 335 kW
 Total Energy consumption kWh/m.sq
 Total Energy demand = 336 X 7hrs.X 365/1000 = 860 K/Wh
 Consumption to be less than demand to be Acceptable.



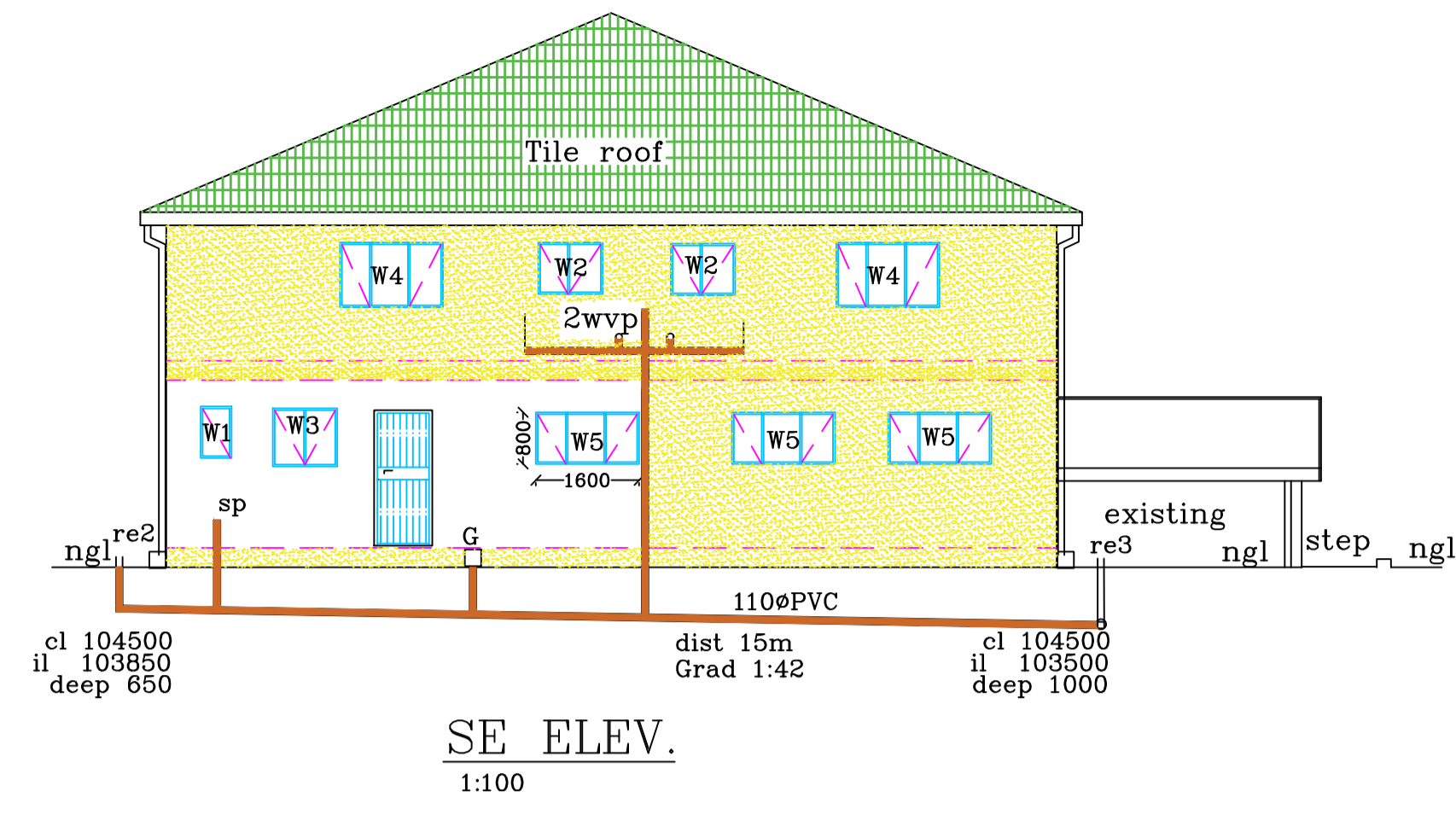
SOAKPIT SECTION



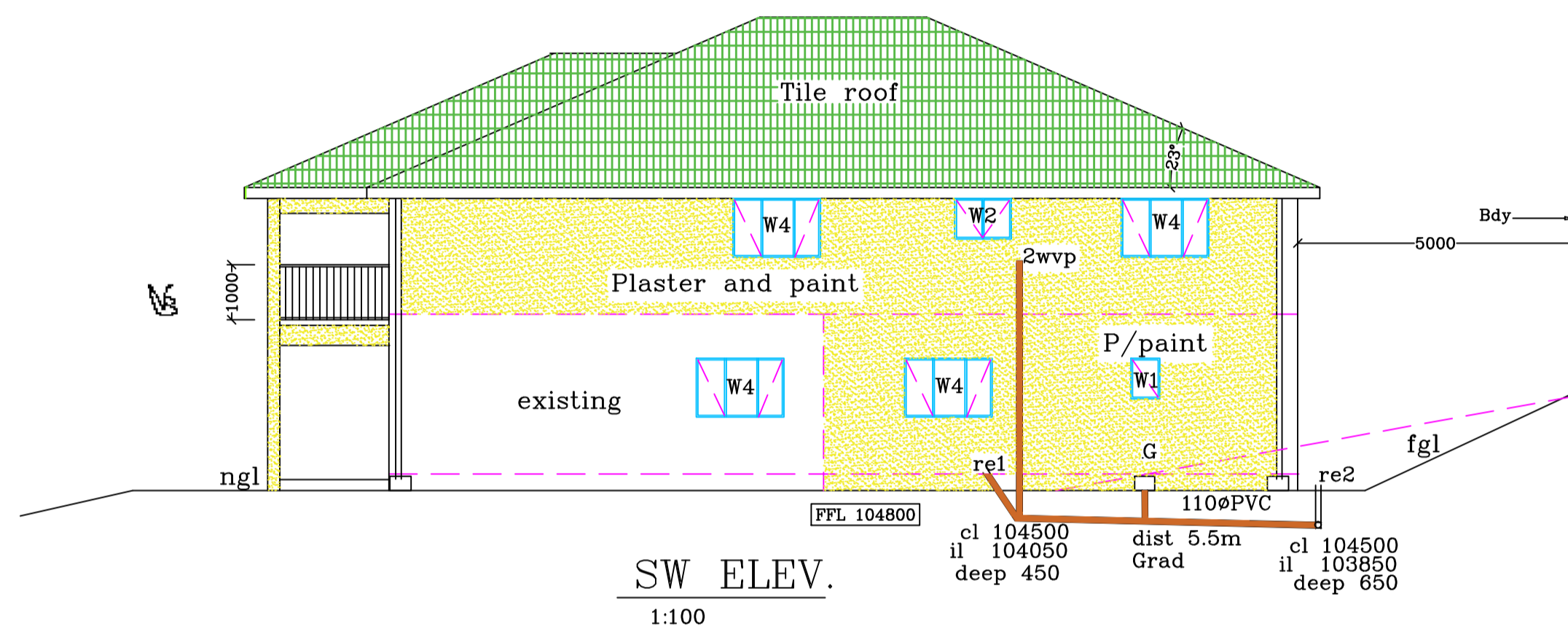
SOAKPIT PLAN



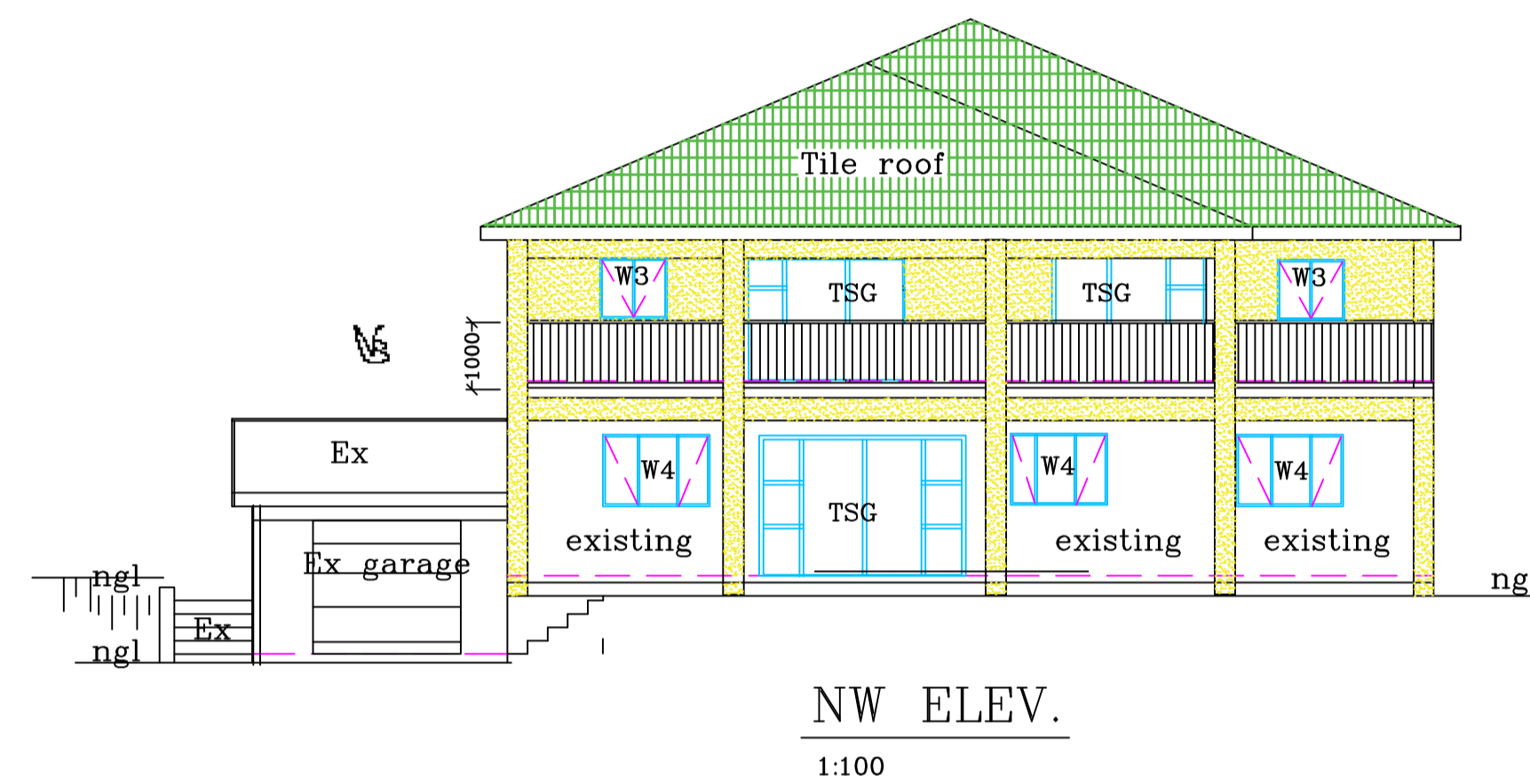
NE ELEV.
1:100



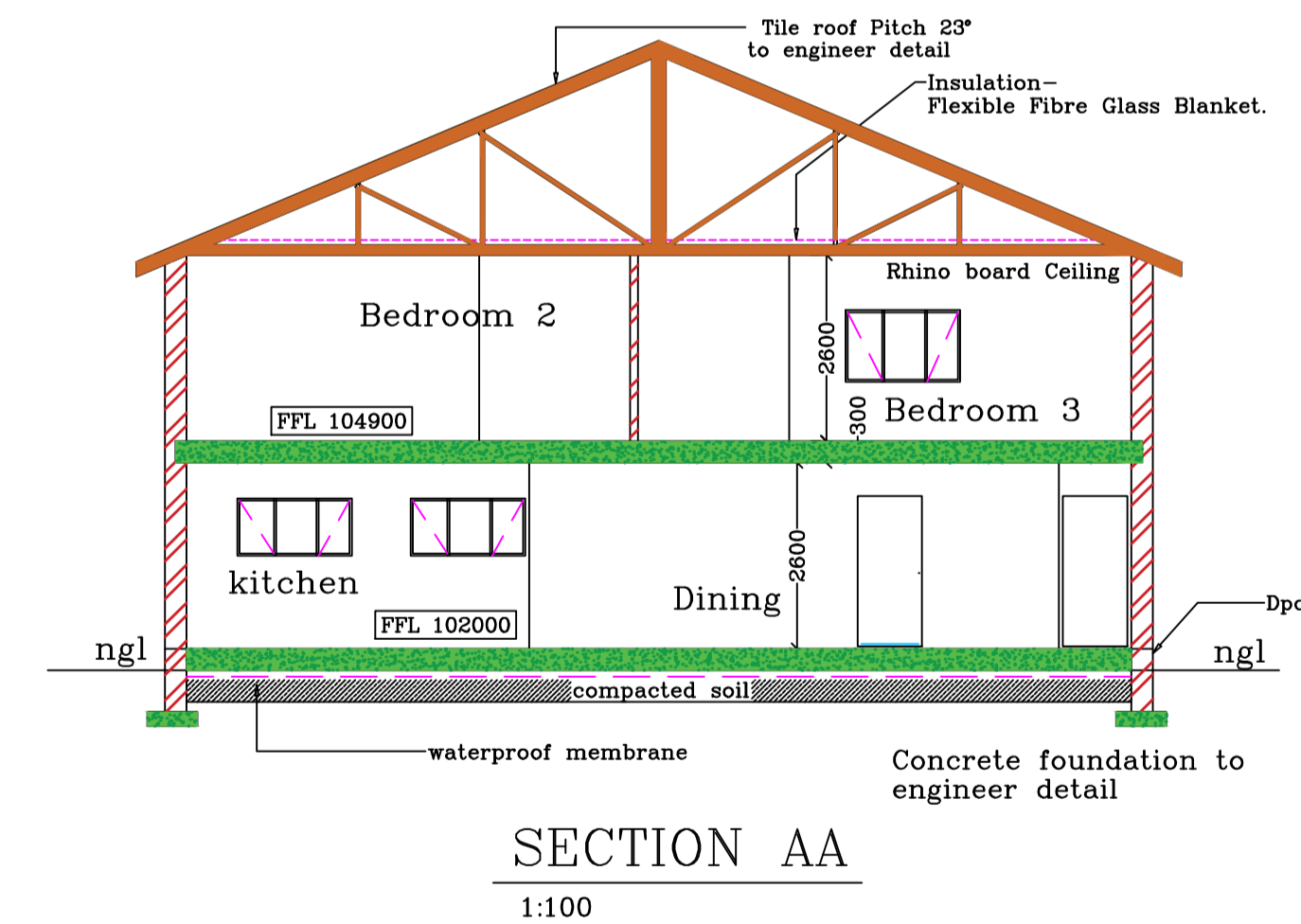
SE ELEV.
1:100



SW ELEV.
1:100



NW ELEV.
1:100



SECTION AA
1:100

Expose all beacons and check dimensions before commencement of work.
 Foundation not to encroach bdy & servitudes
 Foundation: Concrete to engineer's detail.
 FLOOR : floor slab to be min. 100mm thick, reinforced BRC mesh, on waterproof membrane, on hardcore, on poisoned soil by specialist, in accordance to SABS 0124.
 Suspended floor slab to engineer's detail
 WALLS : External 200mm thick coro-block.
 WALLS : Internal 100 mm coro-block.
 Walls to be reinforced with brickforce at floor, window cill, window head and wall plate levels.
 All walls to be plastered and painted.
 Min. two vermin proof airbrick per room.
 Retaining wall and floor slab to engineer's detail.

ROOF: Concrete tiles, on 38 X 38 mm battens, on waterproofing upon 114 X 38 mm gangnailed trusses, at 760mm intervals, on 114 X 38 mm wall platea.
 Roof - load bearing certificate required on completion.
 Ceiling :Rhino Board fixed to 38 x 38 Battens , fixed to trusses.
 Parapet wall min 300 mm high. PC capping on top of wall.
 STAIRS: Tread min. 250 mm , riser max. 200 mm
 Facebrick plinth or 1m conc.apron surround required.
 Stormwater to dispel into gullies to join the existing line.
 Entrance level to d/way to be 300mm above finished rd. level
 All work to comply to Local Authority and NBR.
 All figured dimensions to be used in preference
 RE, IE, and CE's at all junctions.
 All service pipes under building to be encased in concrete.

Balustrades to comply to with SANS 10400 - (1m high)
 Balustrades spacing not to exceed 100mm to comply to with SANS 10400 -
 Glass thickness and Safety glazing to comply to SANS 10400
 Banks were necessary to be cut a max. 22°.
 WATER SUPPLY - Existing
 HIGH PRESSURE WATER SUPPLY
 Water pressure 250 kPa
 1. WATER meter to dwelling 22mmØ pipe.
 2. Water Supply pipe to be Geyser 22mmØ .
 3. Underground pipes 22mmØ polypropylene pipe
 4. Above ground to be copper pipes.
 5. Draw points supply to be 15 mmØ pipes.

TOWN PLANNING

DRAWING NO.. 05
 DATED : 10 JUNE 2021
 PROPOSED ADDITIONS
 ERF : R/ 326 BLUFF
 ADD : 119 DOBLE ROAD
 SUBURB: BLUFF
 FOR MUNSAMY B & K
 Phone 0834965222
 OWNERS SIGN.
 1
 2

Drawn by VINESH BRIJLALL
 8 LOTUS DR ,LOTUS PARK,4133.
 PH 9024183 / 0833848853
 Email : vinessbrijlall@yahoo.com
 SACAP NO. D 0876