

**ENERGY USAGE IN BUILDING TO COMPLY WITH SANS 10400-XA:2021**  
ENERGY ZONE: 5H HIGH HUMIDITY

EXTERNAL WALLS TO BE COLLAR JOINTED WALLS:  
EXTERNAL WALLS TO COMPLY WITH A MINIMUM DENSITY OF 270kg/ms

ROOF ASSEMBLY WITH CEILING AND TILES  
ROOF INSULATION TO COMPLY WITH A R VALUE OF 2.7ms/Kw.  
ADDITIONAL ROOF INSULATION: CELLULOSE LOOSE FIBRE : 90MM THICK

HOT WATER SUPPLY:  
NO OF PERSONS: 2X4 ROOMS=8  
USAGE PER DAY 115L/p/d  
TOTAL USAGE PER DAY: 115x8=920l  
PROVIDE 300L SOLAR GEYSER (KWIKOT)  
50% OF VOLUME HEATED BY SOLAR PANELS  
50% ODF VOLUME HEATED BY ELECTRIC RESISTANCE.

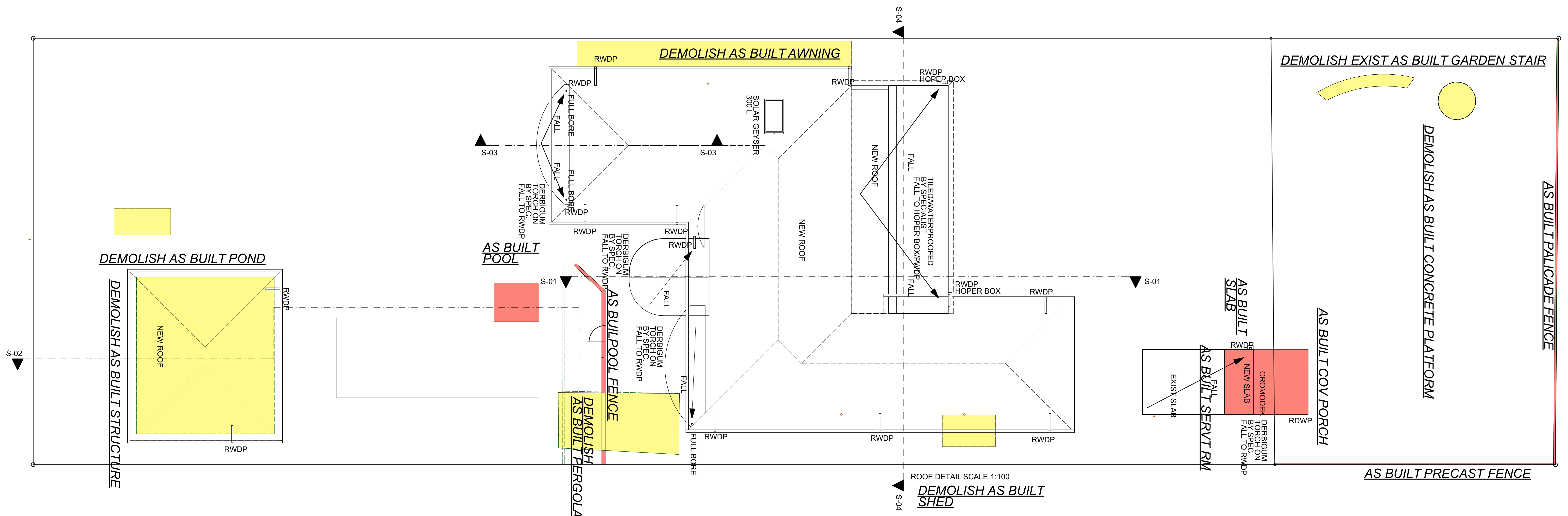
PIPE INSULATION:  
MINIMUM R VALUE =1msKw  
TO BE INSULATED 1M BEFORE SUPPLY AND 1M AFTER GEYSER.

AIR SEALING  
COMPRESSIBLE STRIPS OR FIBROUS SEALS TO ALL WINDOWS AND DOORS ON EXTERNAL WALLS. AIR LEAKAGE TO COMPLY WITH REQUIREMENTS OF SANS 613.

AIR CONDITIONING  
SPLIT UNITS TO BETWEEN 7-19 TO COP VALUE OF 2.9 AND COP<sub>h</sub> VALUE OF 3.2

LIGHTING AS PER OCCUPANCY H4  
ALL LIGHTING TO LED TECHNOLOGY:DEEMED TO SATISFY SANS 10400 XA 2001 6.2

FENESTRATION: SUPPLIER/INSTALLER TO SUPPLY THE SPECIFIED THICKNESS, U VALUE AND SHGC VALUE AS SPECIFIED ON THE FENESTRATION SCHEDULES ACCOMPANIED BY A COC CERTIFICATE FOR ALL FENESTRATION



**"AS BUILT"**

CATEGORY: H4

OWNERS SIGNATURE: *Gramani*

OWNER CONTACT: 0833868335

AUTHORS SIGNATURE: *Gramani*

**PROPOSED ADDITIONS AND ALTERATIONS**  
BOUNDARY WALL ON ERF 2602  
AMANZIMTOTI AT 341 IPAPHLA ROAD  
ATHLONE PARK  
FOR:

**GRAMANI FAMILY TRUST**  
REGISTRATION NUMBER: IT 128804N

DRAWN :  
DESIGN ZONE  
G.S.NAICKER  
38 MERMAID AVENUE  
SEA TIDES  
TONGAAT  
4399

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